POLARIS®

2018

Sportsman® 570 6X6

Owner's Manual

for Maintenance and Safety

Read this manual carefully. It contains important safety information.
This is an adult vehicle only.
Operation is prohibited for those under 16 years of age.

For videos and more information about a safe riding experience with your Polaris vehicle, scan this QR code with your smartphone.

2018 Owner's Manual

Sportsman® 570 6X6

The original instructions for this vehicle are in English. Other languages are provided as translations of the original instructions.

This owner's manual complies with ISO 3600:1996 (3) with the exception of section 4.3 (Machine Identification).

Printed in Czech Republic

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Thank you for purchasing a POLARIS vehicle, and welcome to our world-wide family of POLARIS enthusiasts. Be sure to visit us online at www.polaris.com for the latest news, new product introductions, upcoming events, career opportunities and more.

Here at POLARIS we proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- Low emission vehicles (LEVs)
- *RANGER*® utility vehicles
- BRUTUS® work vehicles
- SLINGSHOT® three wheel motorcycles
- RZR® sport vehicles
- GEM® vehicles
- INDIAN® motorcycles
- POLARIS POWER® generators
- POLARIS DEFENSE® combat vehicles
- Timbersled® Snow Bikes

Always follow the instructions and recommendations in this manual. The manual contains instructions for minor maintenance, but information about major repairs is outlined in the POLARIS Service Manual and should be performed only by a factory-certified Master Service Dealer® (MSD) technician. Please see your dealer for all of your service needs during (and after) the warranty period.

INTRODUCTION

This POLARIS vehicle is an off-road vehicle. Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area.

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.

⚠ WARNING

WARNING indicates a hazardous situation that, if not avoided, may result in death to the operator, bystanders or person(s) inspecting or servicing the vehicle.

CAUTION

CAUTION indicates special precautions that must be taken to avoid vehicle damage or property damage.

⚠ CAUTION

SAFETY ALERT CAUTION indicates a potential hazard that may result in minor personal injury or damage to the vehicle.

IMPORTANT

IMPORTANT provides key reminders during disassembly, assembly, and inspection of components.

NOTICE

NOTICE provides key information by clarifying instructions.

The Prohibition Safety Sign indicates an action NOT to take in order to avoid a hazard.

The Mandatory Action Sign indicates an action that NEEDS to be taken to avoid a hazard.

⚠ WARNING

Failure to follow the warnings in this manual can result in serious injury or death. A POLARIS vehicle is not a toy and can be hazardous to operate. A collision or rollover can occur quickly, even during routine maneuvers, if you fail to take proper precautions.

- Read this owner's manual. Understand all safety warnings, precautions and operating procedures before operating a POLARIS vehicle.
- Never operate this vehicle without proper instruction. Take a training course.
- This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years of age.
- This vehicle is approved for OFF-ROAD TOWING ONLY. Operating a vehicle/trailer combination on public roads is prohibited. See your POLARIS dealer about configuring the vehicle to be certified to tow a trailer on-road.
- The vehicle is not equipped with attachment points for a front-end loader. Attachment of a front-end loader is strictly prohibited.
- The vehicle is not equipped with a Falling Objects Protective Device.
- The vehicle is not equipped with protection against hazardous substances.

⚠ WARNING

Avoid operating in a manner that could result in an overturn, including, but not limited to:

- Operating without instruction
- Operating when under the age of 16
- Operating while under the influence of drugs or alcohol
- Accelerating or braking excessively or abruptly
- Turning sharply or turning at excessive speeds
- Driving improperly, such as exhibition driving
- Carrying a load on only one rack
- Carry an unstable load that extends over the rack sides
- Carrying a passenger
- Operating on steep inclines or sidehills
- Operating on paved surfaces
- Operating on slippery surfaces
- Operating on extremely rugged terrain or over obstacles
- Operating in deep or fast-flowing water
- Operating a damaged vehicle

DECLARATION OF CONFORMITY

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Business Center A5
1180 Rolle, Switzerland
Telephone +41213–218–700

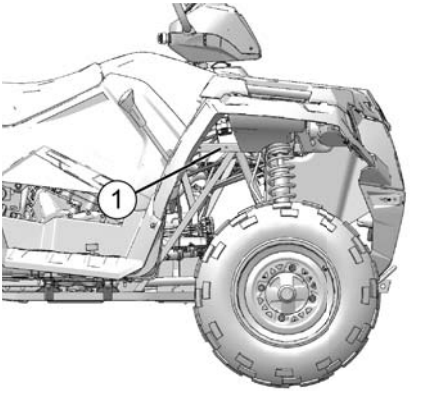
DECLARATION OF CONFORMITY
January 1, 2016
Polaris Sales Europe Sàrl declares that the vehicle(s) listed below conform to the essential requirements to all terrain vehicles.

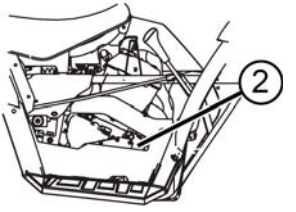
APPLICABLE EUROPEAN DIRECTIVES	TEST / EVALUATION METHODS:
2006/42/EC as amended (Machinery Directive)	EN ISO 12100:2010 Hazard Analysis EN 15997: 2011/AC: 2012
2014/30/EU as amended (EMC Directive)	UNECE R10

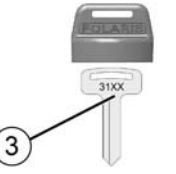
MODEL	COMMERCIAL NAME	VEHICLE SERIAL NUMBER
A_ _S_ _57_ _ (All combinations)	Sportsman 570 6x6	(See Product Identification Label)

VEHICLE IDENTIFICATION NUMBERS

Record your vehicle's identification numbers and key number in the spaces provided. Remove the spare key and store it in a safe place. An ignition key can be duplicated only by ordering a POLARIS key blank (using your key number) and mating it with one of your existing keys. The ignition switch must be replaced if all keys are lost.







Vehicle Model Number (VIN) ①	
Frame VIN	
Engine Serial Number ②	
Key Number ③	

SAFETY

SAFETY WARNING

As the operator of the vehicle, you are responsible for your personal safety, the safety of others (including your passenger), and the protection of our environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

Ride responsibly. Know all laws and regulations concerning the operation of this vehicle in your area.

Failure to follow the warnings in this manual can result in serious injury or death. This POLARIS vehicle is not a toy and can be hazardous to operate. A collision or rollover can occur quickly, even during routine maneuvers, if you fail to take proper precautions.

Read and understand your owner's manual and all warnings before operating this POLARIS vehicle.

SAFETY TRAINING

Never operate this vehicle without proper instruction. Take a training course.

For more information about safety, contact an authorized dealer or visit the POLARIS web site at www.polaris.com.

RESTRICTIONS

Towing is approved OFF-ROAD ONLY unless your vehicle is approved for on-road operation. See your POLARIS dealer about configuring the vehicle to be certified to tow a trailer on-road.

EQUIPMENT MODIFICATIONS

The warranty on your POLARIS vehicle may be terminated if any equipment has been added, or if any modifications have been made, that increase speed or power.

NOTICE

The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers and large racks may change vehicle handling. Use only POLARIS-approved accessories. Know their function and effect on the vehicle.

SAFE RIDING GEAR

Always wear protective clothing to reduce the chance of injury.

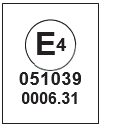
① A helmet
② Eye protection
③ Long-sleeve shirt
④ Gloves
⑤ Long pants
⑥ Over-the-ankle boots

HELMET

Always wear a helmet that meets or exceeds established safety standards.

Approved helmets in the USA and Canada bear a U.S. Department of Transportation (DOT) label.

Approved helmets in Europe, Asia and Oceania bear the ECE 22.05 label. The ECE mark consists of a circle surrounding the letter E, followed by the distinguishing number of the country which has granted approval. The approval number and serial number will also be displayed on the label.



EYE PROTECTION

Do not depend on eyeglasses or sunglasses for eye protection. Whenever riding a POLARIS vehicle, always wear shatterproof goggles or use a shatterproof helmet face shield. POLARIS recommends wearing approved Personal Protective Equipment (PPE) bearing markings such as VESC 8, V-8, Z87.1, or CE. Make sure protective eye wear is kept clean.

GLOVES

Off-road style gloves with knuckle pads are the best for comfort and protection.

BOOTS

The best footwear is a pair of sturdy over-the-calf boots with low heels.

CLOTHING

Always wear long sleeves and long pants to protect arms and legs. Riding pants with kneepads and a jersey with shoulder pads provide the best protection.

SAFETY WARNINGS

⚠ WARNING

Failure to operate the ATV properly can result in a collision, loss of control, accident or overturn, which may result in serious injury or death. Heed all safety warnings outlined in this section of the manual. See the ATV OPERATION section of this manual for proper operating procedures.

OPERATING WITHOUT INSTRUCTION

Operating this vehicle without proper instruction increases the risk of an accident. The operator must understand how to operate the vehicle properly in different situations and on different types of terrain. All operators must read and understand the Owner's Manual and all warning and instruction labels before operating the vehicle.

AGE RESTRICTIONS

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years of age. Never allow anyone under 12 years of age to ride as a passenger on a 2-up vehicle. Even though a child may be within the recommended age group for operating some ATVs, he/she may not have the skills, abilities, or judgment needed to operate or ride on this ATV safely and could be susceptible to accident or injury.

CARRYING MORE THAN ONE PASSENGER ON A 2-UP ATV

Carrying more than one passenger on a 2-up ATV greatly reduces the operator's ability to balance and control the ATV, which may result in an accident or rollover. Never carry more than one passenger on a 2-up ATV.

PROTECTIVE APPAREL

Riding in this vehicle without wearing an approved helmet and protective eyewear increases the risk of a serious injuries in the event of an accident.

Operator and all passenger *must* always wear an approved helmet that fits properly and eye protection (goggles or face shield).

OPERATING ON PUBLIC ROADS

Operating an off-road vehicle on public streets, roads or highways could result in a collision with another vehicle.

Never operate an off-road vehicle on any public street, road or highway, including dirt and gravel roads (unless designated for off-highway use).

USING ALCOHOL OR DRUGS

Operating the vehicle after consuming alcohol or drugs could adversely affect operator judgment, reaction time, balance and perception.

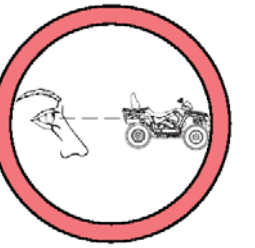
Never drink alcohol or use drugs or medications before or while operating this vehicle.

FAILURE TO INSPECT BEFORE OPERATING

Failure to inspect and verify that the ATV is in safe operating condition before operating increases the risk of an accident.

Always inspect the ATV before each use to make sure it's in safe operating condition.

Always follow all inspection and maintenance procedures and schedules described in the owner's manual.



PHYSICAL CONTROL OF THE ATV

Removing a hand from the handlebars or feet from the footrests during operation can reduce your ability to control the vehicle or cause loss of balance and ejection from the ATV.

If the operator’s feet are not firmly planted on the footrests, they could come into contact with the rear wheels or other moving parts and lead to accident or injury.

Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation. A passenger should always be seated in the passenger seat with both feet on the footrests and both hands on the passenger grab handles at all times. The passenger should never hold on to the operator.

TURNING IMPROPERLY

Turning improperly could cause loss of traction, loss of control, accident or rollover.

Always follow proper procedures for turning as described in the owner's manual.

Never turn abruptly or at sharp angles. Never turn at high speeds. Practice turning at slow speeds before attempting to turn at faster speeds.

JUMPS AND STUNTS

Attempting wheelies, jumps and other stunts increases the risk of an accident or overturn. Never attempt wheelies, jumps, or other stunts. Avoid exhibition driving.

DESCENDING HILLS IMPROPERLY

Improperly descending a hill could cause loss of control or rollover.

- Always follow proper procedures for traveling down hills as described in the owner's manual.

NOTE

A special technique is required when braking while traveling downhill. See the Driving Downhill section.

- Always descend a hill with the transmission in forward gear. Do not descend a hill with the transmission in neutral. Always move the 4X4 switch to 4WDC (if equipped) before ascending or descending a hill.
- Always check the terrain carefully before descending a hill.
- Shift your weight rearward.
- Never travel down a hill at high speed.
- Avoid traveling down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.

CROSSING HILLSIDES

Driving on a sidehill is not recommended. Improper procedure could cause loss of control or overturn. Avoid crossing the side of any hill unless absolutely necessary.

Always move the AWD switch to ADC (if equipped) before ascending or descending a hill.

If crossing a hillside is unavoidable, always follow proper procedures as described in the owner's manual.

Never attempt to turn the ATV around on any hill until you've mastered the turning technique (on level ground) as described in the owner's manual.

STALLING WHILE CLIMBING A HILL

Stalling, rolling backwards or improperly dismounting while climbing a hill could cause a rollover.

- Always maintain a steady speed when climbing a hill.
- Always move the 4X4 switch to 4WDC (if equipped) before ascending or descending a hill.

If all forward speed is lost:

- Lean forward to keep body weight uphill. A passenger should also lean uphill.
- Apply the brakes.
- Lock the parking brake when fully stopped.
- Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill. Have a passenger dismount first, then the operator may dismount.
- Turn the ATV around and remount, following the procedure described in the owner's manual.

If the ATV begins rolling downhill:

- Keep operator and passenger body weight uphill.
- Never apply engine power.
- Never apply the rear brake while rolling backwards. Apply the single-lever brake gradually.
- When fully stopped, apply the rear brake as well, and then lock the parking brake.
- Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill. Have a passenger dismount first, then the operator may dismount.
- Turn the ATV around and remount, following the procedure described in the owner's manual.

IMPROPER HILL CLIMBING

Improper hill climbing could cause loss of control or rollover. Always follow proper procedures for climbing hills as described in the owner's manual. Always move the 4X4 switch to 4WDC (if equipped) before ascending or descending a hill.

OPERATING OVER OBSTACLES

Improperly operating over obstacles could cause loss of control or rollover.

Before operating in a new area, check for obstacles. Avoid operating over large obstacles such as rocks and fallen trees. If unavoidable, use extreme caution and always follow proper operating procedures as outlined in this manual.

OPERATING IMPROPERLY IN REVERSE

Improperly operating in reverse could result in a collision with an obstacle or person. Always follow proper operating procedures as outlined in this manual.

Before shifting into reverse gear, always check for obstacles or people behind the vehicle. When it's safe to proceed, back slowly.

IMPROPER CARGO LOADING

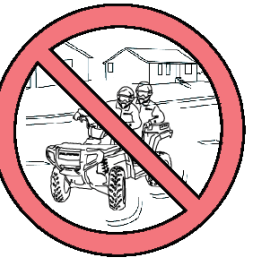
Overloading the ATV or carrying/towing cargo may cause changes in handling, which could cause loss of control or an accident.

- Never exceed the stated load capacity for this ATV.
- Cargo should be properly distributed and securely attached.
- Reduce speed when carrying cargo or pulling a trailer. Allow a greater distance for braking.
- Always follow the instructions in the owner's manual for carrying cargo or pulling a trailer.
- Always follow the instructions in the owner's manual for operating with a passenger.

OPERATING ON PAVEMENT

Operating an off-road vehicle on paved surfaces (including sidewalks, paths, parking lots and driveways) may adversely affect the handling of the off-road vehicle and could result in loss of control and accident or rollover.

Most ATV tires are designed for off-road use. Avoid operating an off-road vehicle on pavement. If it's unavoidable, travel slowly and avoid sudden turns or stops.



OPERATING AT EXCESSIVE SPEEDS

Operating the ATV at excessive speeds increases the operator's risk of losing control.

Never operate at excessive speeds. Travel at speeds appropriate for your skills, your passenger's skills, and operating conditions.

OPERATING ON SLIPPERY TERRAIN

Failure to use extra caution when operating on excessively rough, slippery or loose terrain could cause loss of traction, loss of control, accident or rollover.

Do not operate on excessively rough, slippery or loose terrain. Always use extra caution on rough, slippery or loose terrain.

SKIDDING OR SLIDING

Skidding or sliding can cause loss of control or overturn (if tires regain traction unexpectedly). On slippery surfaces such as ice, travel slowly and use extra caution to reduce the chance of skidding or sliding.

OPERATING THROUGH DEEP WATER

Operating the ATV through deep or fast-flowing water could cause the tires to float, causing loss of control or overturn.

Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable to enter water that exceeds the recommended maximum depth:

- Travel slowly.
- Balance your weight carefully.
- Avoid sudden movements.
- Maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. After leaving water, test the brakes. Apply them lightly several times while driving. The friction will help dry out the pads.

EXPOSURE TO EXHAUST

Engine exhaust fumes are poisonous and can cause loss of consciousness or death in a short time. Never start the engine or let it run in an enclosed area.

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm. Operate this vehicle only outdoors or in well-ventilated areas.

OPERATING IN UNFAMILIAR TERRAIN

Failure to use extra caution when operating on unfamiliar terrain could result in an accident or rollover.

Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or rollover.

Travel slowly and use extra caution when operating on unfamiliar terrain. Always be alert to changing terrain conditions.

OPERATING A DAMAGED VEHICLE

Operating a damaged vehicle can result in an accident. After any rollover or other accident, have a qualified service dealer inspect the entire machine for possible damage, including (but not limited to) seat belts, rollover protection devices, brakes, throttle and steering systems.

IMPROPER TIRE MAINTENANCE

Operating this vehicle with improper tires or with improper or uneven tire pressure could cause loss of control or accident. Always use the size and type of tires specified for your vehicle. Always maintain proper tire pressure as described in the owner's manual and on safety labels.

IMPROPER VEHICLE MODIFICATIONS

Improper installation of accessories or modification of the ATV may cause changes in handling, which could cause loss of control or an accident.

Never modify the ATV through improper installation or use of accessories. All parts and accessories added to the vehicle must be genuine POLARIS Industries Inc. or equivalent components designed for use on this ATV and should be installed and used according to approved instructions. An authorized dealer can assist.

OPERATING ON FROZEN BODIES OF WATER

NEVER operate this vehicle on a frozen body of water.

HANDLING GASOLINE

Gasoline is highly flammable and explosive under certain conditions.

- Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine stopped, and outdoors or in a well ventilated area.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- Do not overfill the tank. Do not fill the tank neck.
- If gasoline spills on your skin or clothing, immediately wash it off with soap and water and change clothing.

UNAUTHORIZED USE OF THE VEHICLE

Leaving the keys in the ignition can lead to unauthorized use of the vehicle by someone under the age of 16, without a drivers license, or without proper training. This could result in an accident or rollover. Always remove the ignition key when the vehicle is not in use.

HOT EXHAUST SYSTEMS

Exhaust system components are very hot during and after use of the vehicle. Hot components can cause burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system. Use caution when traveling through tall grass, especially dry grass.

OCCUPANT PROTECTION DEVICE

This vehicle is not equipped with an Occupant Protection Device capable of protecting the operator from falling objects. Please be aware of your surroundings at all times when operating this vehicle.

VEHICLE SAFETY

For more information about vehicle safety, contact an authorized POLARIS vehicle dealer or visit the POLARIS web site at www.polaris.com.

SAFETY LABELS AND LOCATIONS

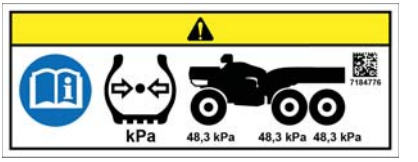
Warning labels have been placed on the vehicle for your protection. Read and follow the instructions of the labels on the vehicle carefully. If any of the labels depicted in this manual differ from the labels on your vehicle, always read and follow the instructions of the labels *on the vehicle*.

If any label becomes illegible or comes off, contact your POLARIS dealer to purchase a replacement. Replacement *safety* labels are provided by POLARIS at no charge. The part number is printed on the label.

SPORTSMAN 570 6X6 LABELS

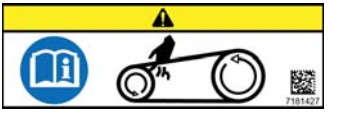
TIRE PRESSURE ALERT (7184776)

Read the owner's manual.
TIRE PRESSURE in kPa:
FRONT - 48,3
CENTER - 48,3
REAR - 48,3



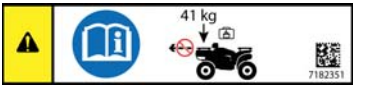
CLUTCH COVER ALERT (7181427)

Keep body parts away from belt.



RACK ALERT (7182351)

DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result causing severe injury or death. Tow only from tow hooks or hitch.
Maximum Rack Loads:
FRONT – 41 kg



BOX ALERT (7184777)

Read Owner's Manual. Remove flammable material containers from box before filling. Never carry passengers in cargo box.
Maximum Box Load:
340 kg

CRUSH ALERTS (7184130)

To prevent a crushing injury to hands and fingers, keep hands and fingers away from the lower front edge of the cargo box while lowering the box.

GENERAL ALERT (7181538)

Before you operate this vehicle, read the owner's manual. Never allow anyone under 16 years of age to operate this vehicle. Wear approved helmet, goggles, and protective clothing. Never use alcohol or drugs before or while operating. Never carry more than one passenger on this vehicle. Never operate the vehicle on any public street, road or highway.

OVERRIDE ALERT (7181544)

Improper use of override button can lead to loss of control resulting in severe injury or death. Do not activate override while throttle is engaged. Always apply throttle gradually while in reverse.

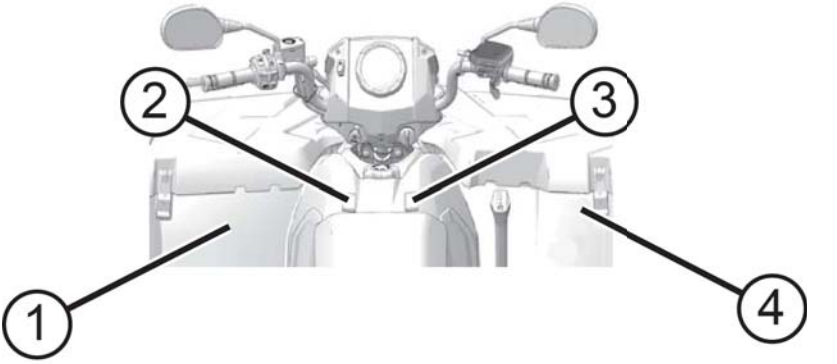
4X4 (AWD) ALERT (7181543)

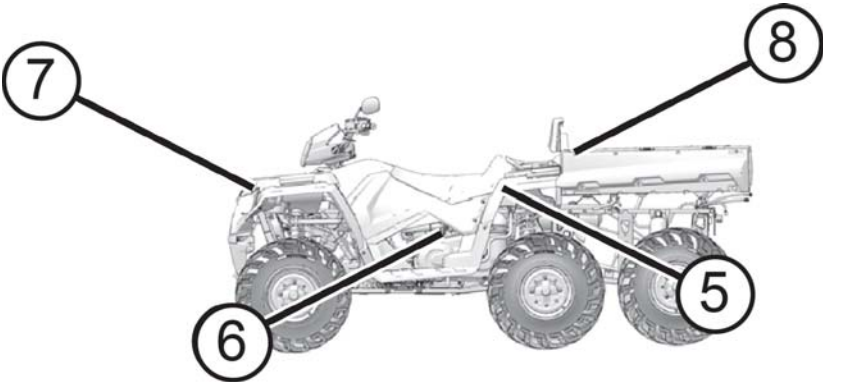
Do not push switch to engage 4X4 (AWD) if the rear wheels are spinning. This may cause severe drive shaft and clutch damage.

HILL OPERATION ALERT (7181536)

Read Owner's Manual. Never operate this vehicle on **HILLS steeper than 15 degrees**.

SPORTSMAN 570 6X6
SAFETY LABEL LOCATIONS





① General Alert

② Override Alert

③ 4X4 (AWD) Alert

④ Hill Operation Alert

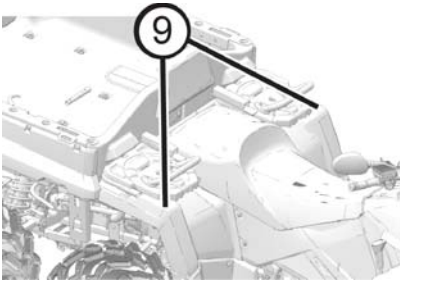
⑤ Tire Pressure Alert

⑥ Clutch Cover Alert

⑦ Rack Alert

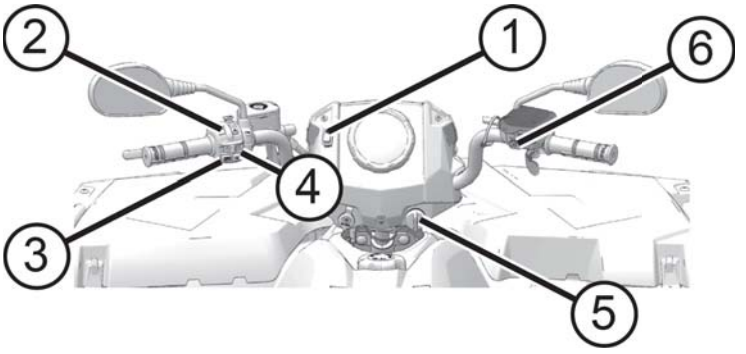
⑧ Box Alert (inside box)

⑨ Crush Alerts



FEATURES AND CONTROLS

SWITCHES



① Work Light Switch
② Light Switch (High/Low Beam)
③ Mode/Reverse Override Switch
④ Winch Switch (if equipped)
⑤ Main Key Switch
⑥ AWD Switch

WINCH AND MOMENTARY HIGH BEAM SWITCHES

① Winch Switch
② Momentary High Beam Switch

MOMENTARY HIGH BEAM SWITCH

Press this switch with your left forefinger to activate the headlight high beam. The lights will return to low beam when the switch is released.

WINCH SWITCH (IF EQUIPPED)

See the Winch Guide chapter for details.

MODE / REVERSE OVERRIDE SWITCH

This vehicle is equipped with a reverse speed limiter system. To gain additional wheel speed while backing, release the throttle and depress the override switch.

⚠ WARNING

Pressing the override switch while the throttle is open can cause loss of control, which may result in serious injury or death. Always release the throttle before pressing the override switch.

The reverse override switch also acts as a MODE button when held down for approximately one half second. The transmission cannot be in reverse when using the override switch as a MODE button.

MAIN KEY SWITCH

⚠ WARNING

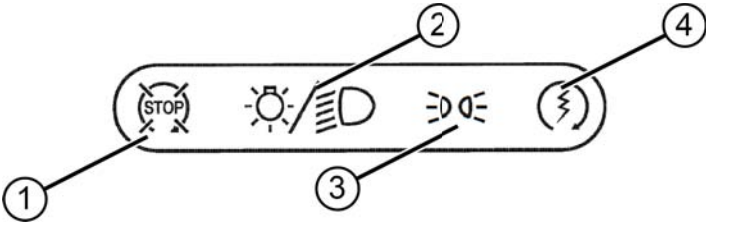
Do not attach a large key fob or key ring to the main switch. It may contact the gas tank cap when turning, causing an interruption to the electrical system and an unexpected engine shut-down during operation. This could result in serious injury or death.

① *STOP:* End all electrical power to the vehicle.

② *LIGHTS ON:* Turn the headlights on. The engine stop switch must be in the RUN position.

③ *PARKING LIGHTS ON:* After starting the engine, release the key switch to this position. The parking lights and taillights are on in this position.

④ *START:* Start the engine. The headlights are not on in this position.



ENGINE STOP SWITCH

The engine will not start or run when the switch is in the OFF position.

OFF

RUN

Push the stop switch down to stop the engine quickly. Pull the stop switch up to the RUN position before attempting to start the engine.

Both the main switch and the engine stop switch will shut off all electrical power to the vehicle, including lights.

LIGHT SWITCH (HIGHT / LOW BEAM)

Use the light switch to change the headlights from high beam to low beam.

High Beam

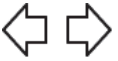
Low Beam

WORK LIGHT SWITCH (IF EQUIPPED)

The work light switch controls a light located in the pod. Use the light when additional light is needed at the front of the vehicle, but turn the work light off when driving the vehicle (on-road).

TURN SIGNAL SWITCH

Push the toggle switch either left or right to activate the corresponding turn signal light. The indicator on the pod will also flash. Return the toggle to the center position to end the signal.



HAZARD WARNING SWITCH

Push the hazard warning switch to cause all turn signal lights to flash simultaneously. Use this feature to alert others of an emergency or other situation requiring caution.

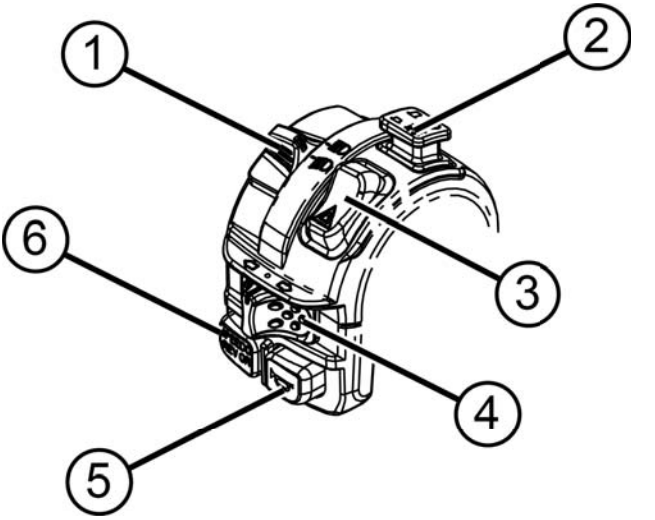
HORN SWITCH

Press the horn switch to sound the horn.

4X4 SWITCH (IF EQUIPPED)

Use the 4X4 switch ① to engage ADC 4X4, 4X4 or 2X4. The vehicle automatically engages 4X4 when operating in reverse if the switch is set to either 4X4 position.

LEFT HANDLEBAR SWITCHES



① Light Switch

② Engine Stop Switch

③ Hazard Switch

④ Turn Signal Switch

⑤ Horn Switch

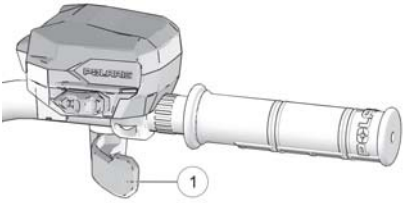
⑥ Override Switch

THROTTLE LEVER

⚠ WARNING

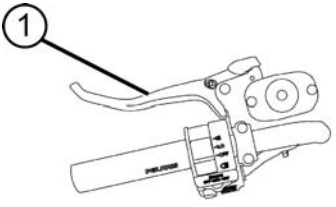
Failure to check or maintain proper operation of the throttle system can result in an accident if the throttle lever sticks during operation. Check the lever for proper operation before starting the engine. Check occasionally during operation. Do not start or operate the vehicle with sticking or improperly operating throttle controls. Contact your dealer for repair if throttle problems arise.

Press the throttle lever to increase engine speed and vehicle movement. Release the lever to reduce engine speed and vehicle movement.



HAND BRAKE LEVER

Squeeze the brake lever ① toward the handlebar to apply the front and rear brakes. These brakes are hydraulically activated disc type brakes that are activated by only one lever.



Always test brake lever travel and master cylinder fluid level before riding. When squeezed, the lever should feel firm. Any sponginess would indicate a possible fluid leak or low master cylinder fluid level, which must be corrected before riding. Contact your dealer for proper diagnosis and repairs.

CAUTION

Operating the vehicle with a spongy brake lever can result in loss of braking, which could cause an accident. Never operate the vehicle with a spongy-feeling brake lever. Always contact your dealer for service before operating the vehicle.

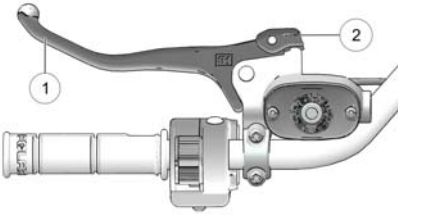
PARKING BRAKE

LOCKING THE PARKING BRAKE

⚠ WARNING

Operating the ATV while the parking brake is engaged could result in an accident or fire. Always check to be sure the parking brake is disengaged before operating.

1. Place the transmission in PARK.
2. Squeeze and release the brake lever ① two or three times, then squeeze and hold.
3. Push the parking brake lock ② forward to engage the lock.
4. Release the brake lever.
5. To release the parking brake lock, squeeze and release the brake lever. It will return to its unlocked position.



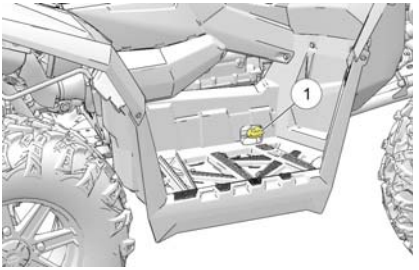
The parking brake may relax if left on for a long period of time. Always block the wheels to prevent rolling. Always block the wheels on the downhill side of the ATV if leaving it parked on a hill. Another option is to park the ATV in a sidehill position. Never depend on the parking brake alone if the ATV is parked on a hill. Always block the wheels to prevent rolling.

AUXILIARY FOOT BRAKE

⚠ WARNING

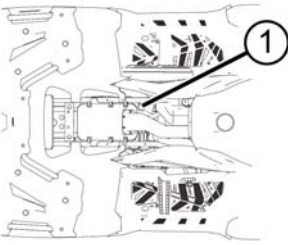
Never back down a hill. Applying the auxiliary brake when backing down a hill may cause rear tipover, which could result in serious injury or death.
Use caution when applying the auxiliary brake. Do not aggressively apply the auxiliary brake when going forward. The rear wheels may skid and slide sideways, causing loss of control and serious injury or death.

The auxiliary brake system is intended to be used as a backup for the main brake system. Should the main system fail, use the auxiliary foot brake ①.
The auxiliary foot brake is located on the inside of the right footrest. Operate this brake with your right foot.
If the rear wheels slide while using the auxiliary brake, *reduce* brake pedal pressure to brake the rear wheels without skidding.



BRAKE FLUID LEVEL

Check the brake fluid level frequently for the auxiliary brake system. The reservoir ① is located under the seat on the left side of the vehicle. Maintain the fluid level between the maximum and minimum marks. See the Brake Fluid section for details.



MIRRORS (IF EQUIPPED)

Use the mirrors to assist in traffic maneuvers. Always check and adjust the mirrors before driving the vehicle.

ELECTRONIC POWER STEERING (EPS)

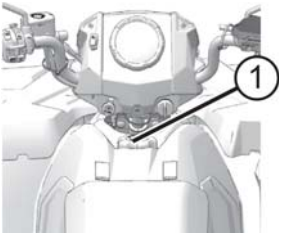
Electronic power steering (EPS), if equipped, engages when the ignition key is turned to the ON position. EPS remains engaged whether the vehicle is moving or idle. See the Instrument Cluster section for EPS Warning Indicator information.

FUEL CAP

This vehicle is equipped with a digital fuel gauge that will indicate a low fuel condition. Refuel when the gauge indicates a low fuel condition.

Always refuel with the engine stopped, and outdoors or in a well ventilated area. Refuel on a level surface.

Remove the fuel tank cap ① to add fuel to the fuel tank. Use either leaded or unleaded gasoline with a minimum pump octane number of 87 = (R + M/2) octane. Do not use fuel with ethanol content greater than 10 percent, such as E-85 fuel.



EXTREME USE BATTERY

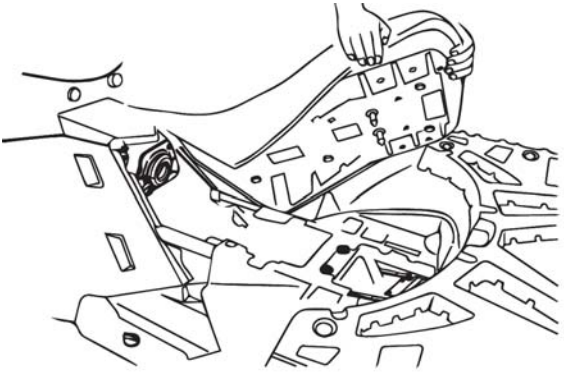
An optional extreme use battery may be available for your model. If the performance of the factory-installed battery is inadequate due to operation in extreme cold or due to extended use of multiple electrical accessories, your POLARIS dealer can assist. Your dealer can provide any installation procedures that may differ for an extreme use battery.

MIRRORS (IF EQUIPPED)

Use the mirrors to assist in traffic maneuvers. Always check and adjust the mirrors before driving the vehicle.

SEAT

SEAT REMOVAL



1. Locate the seat removal latch in the center of the seat's rear.
2. Pull on the latch handle to disengage the seat from the vehicle's frame.
3. Remove the seat.

HITCHES

See the Specifications Section for hitch weight capacities.

NOTICE

Do not tow a vehicle or a trailer with this vehicle unless all instructions have been followed. See the Hauling Cargo section for details.

CAUTION

Whenever the vehicle is towing, always stay clear of the area between the vehicle and the towed object.

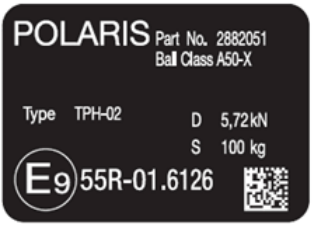
REAR HITCH

Use the rear hitch for towing a trailer. See the Hauling Cargo section for procedures.

REAR HITCH SPECIFICATIONS	
Material	1021 M Steel
Fasteners	1008K Steel (Main Pin and Receiver Pin)
Weld Length and Positions	3 mm fillet, both sides, all around
Maximum Vertical Load	75 kg applied on coupling point
Maximum Towable Mass	750 kg
Approval #	e11*89/173*2006/26*2073*xx

REAR HITCH CERTIFICATION LABEL

The hitch certification label is located near the hitch on models equipped with a factory-installed rear hitch.



HITCH REMOVAL / INSTALLATION

1. To remove the hitch, remove the cotter pin and hitch pin. Remove the hitch, then reinstall the hitch pin and secure the cotter pin.

Cotter Pin ①
Hitch Pin ②

Step 4

Step 5

2. To install the hitch, remove the cotter pin from the hitch pin and remove the hitch pin.
3. Install the hitch to the receiver.
4. Reinstall the hitch pin (from the left side of the hitch) through the bore of both the receiver and the hitch.
5. Reinstall the cotter pin. Make sure the hitch assembly is secure at that the cotter pin is properly engaged over the hitch pin.

7-WAY TRAILER CONNECTOR

The 7-way trailer connector installed on your vehicle meets the requirements of European standard ISO 1724.

This connector uses all 7 pins on newer model trailers. An older model trailer may not be compatible with this connector.

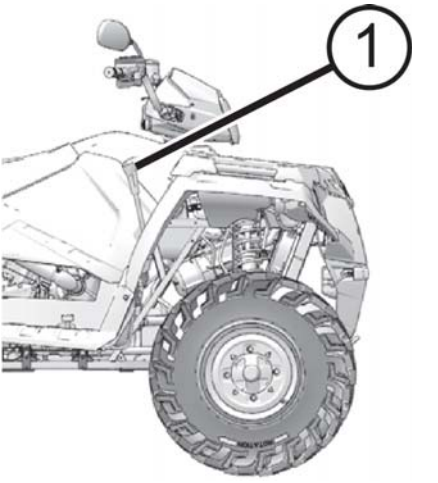
Improper electrical wiring changes can result in damage to both vehicle and trailer components. When in doubt about your trailer connection, please contact a qualified towbar specialist for assistance.

AUTOMATIC TRANSMISSION GEAR SELECTOR

The transmission gear selector ① is located on the right side of the vehicle.

H: High Gear
L: Low Gear
N: Neutral
R: Reverse
P: Park

To shift gears, brake to a complete stop. When the engine is idling, move the lever to the desired gear.



NOTE

Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

Whenever the ATV is left unattended, always place the transmission in PARK and lock the parking brake.

BELT LIFE

To extend belt life, use low forward gear when pulling a heavy load at less than 11 km/h for extended periods and when operating uphill at a slow speed.

ALL WHEEL DRIVE (6X6) SYSTEM

The All Wheel Drive system is controlled by the AWD momentary switch.

Engage AWD before getting into conditions where front wheel drive may be needed. If the rear wheels are spinning, release the throttle before switching to AWD.

- Move the momentary switch to the right to engage AWD (6X6).
- Move the momentary switch to the right, past the AWD setting, to engage ADC AWD.
- Move the momentary switch to the far left to operate in rear four-wheel drive (4X6). When the switch is on 4X6, the middle and rear wheels drive at all times.

NOTICE

Switching to AWD or ADC AWD while the rear wheels are spinning may cause severe drive shaft and gearcase damage. Always switch to AWD or ADC AWD while the rear wheels have traction or are at rest.

AWD MODE

Move the momentary switch to the right to engage AWD (6X6). AWD will engage when engine speed slows to below 3100 RPM. The gauge will display “AWD”.

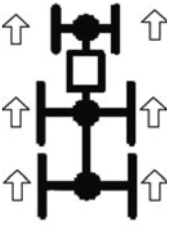
There is no limit to the length of time the vehicle may remain in AWD. The vehicle automatically engages AWD when operating in reverse if the switch is set to the AWD position.

Once enabled, AWD remains enabled until the switch is turned off. If the switch is turned off while the demand drive unit is moving, it will not disengage until the rear wheels regain traction.

When in AWD, the demand drive unit will automatically engage any time the rear wheels lose traction. When the rear wheels regain traction, the demand drive unit will automatically disengage.

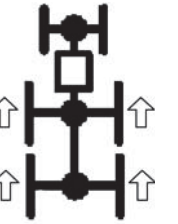
ADC AWD MODE

Move the momentary switch to the right, past the AWD setting, to engage ADC AWD. When the switch is on ADC AWD, the ADC system allows engine braking to all six wheels when the vehicle descends a hill or incline. Always move the AWD switch to ADC AWD before ascending or descending a hill. See the Active Descent Control (ADC) System section for details.



4X6 MODE

Move the momentary switch to the far left to operate in rear four-wheel drive (4X6). When the switch is on 4X6, the middle and rear wheels drive at all times. AWD will disengage when engine speed slows to below 3100 RPM.



NOTE

The gauge will display “2X4” when operating in rear four-wheel drive (4X6).

ACTIVE DESCENT CONTROL (ADC) SYSTEM

The ADC system allows engine braking to all four wheels when the vehicle descends a hill or incline. Always move the AWD switch to ADC AWD before ascending or descending a hill.

ENGAGING ACTIVE DESCENT CONTROL

The ADC system will automatically engage when all four of the following conditions occur:

- The AWD switch must be in the ADC AWD position
- Vehicle speed must be 15 MPH (25 km/h) or less
- The throttle must be closed (throttle lever released)
- The transmission must be in gear (high, low or reverse)

DISENGAGING ACTIVE DESCENT CONTROL

The ADC system will automatically disengage if at least one of the following conditions occur:

- The AWD switch is moved out of the ADC AWD position
- Vehicle speed exceeds 15 MPH (25 km/h)
- The throttle is open (throttle is applied)
- The transmission is shifted to neutral or park

INSTRUMENT CLUSTER

① Speedometer

② Rider Information Center

③ Indicator Lamps

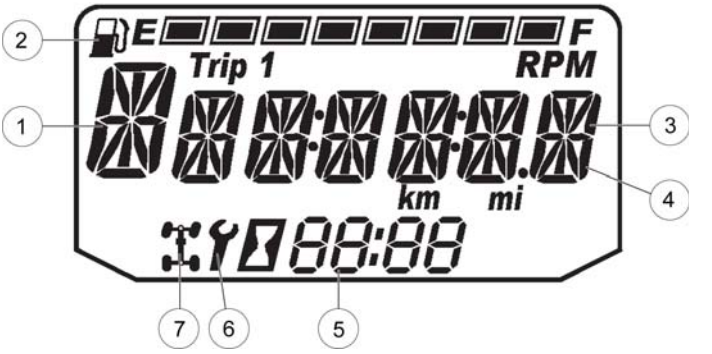
SPEEDOMETER

The speedometer displays vehicle speed in either miles per hour (MPH) or kilometers per hour (km/h).

RIDER INFORMATION CENTER

The rider information center is located in the instrument cluster. All segments will light up for one second at start-up. If the instrument cluster fails to illuminate, a battery over-voltage may have occurred and the instrument cluster may have shut off to protect the electronic speedometer. If this occurs, your POLARIS dealer can provide proper diagnosis.

The information center is set to display standard units of measurement and a 12-hour clock at the factory.



①	Gear Indicator	This indicator displays gear shifter position. **H:** High Gear **L:** Low Gear **N:** Neutral **R:** Reverse Gear **P:** Park **–:** Gear Signal Error (or shifter between gears)
②	Fuel Gauge	The segments of the fuel gauge show the level of fuel in the fuel tank. When the last segment clears, a low fuel warning is activated. All segments including the fuel icon will flash. Refuel immediately.
③	Information Display Area	This area displays odometer, trip meter, engine hour meter and programmable service hour interval.
④	Under/Over Voltage	This warning usually indicates that the vehicle is operating at an RPM too low to keep the battery charged. It may also occur when the engine is at idle and high electrical load (lights, cooling fan, accessories) is applied. Drive at a higher RPM or recharge the battery to clear the warning.
⑤	Clock	The clock displays time in a 12-hour or 24-hour format.
⑥	Service Indicator	A flashing wrench symbol alerts the operator that the preset service interval has been reached. Your dealer can provide scheduled maintenance.
⑦	4x4 Indicator	This indicator illuminates when the 4X4 system is engaged (switch is on 4X4, AWD or ADC 4X4).

DISPLAY UNITS (STANDARD/METRIC)

The display can be changed to display either standard or metric units of measurement.

The reverse override button acts as the MODE button when pressed and released quickly. The transmission cannot be in reverse when using the override button as a MODE button. This feature does not contain a vehicle speed lockout function and can be used at any operating speed.

NOTE
To exit the set-up mode at any time, wait 10 seconds.The display automatically exits and returns to the odometer display.

	Standard Display	Metric Display
Distance	Miles	Kilometers
Time	12–Hour Clock	24–Hour Clock

1. Turn the key to the OFF position.
2. Place the transmission in neutral.
3. Press and hold the MODE button while turning the key to the ON position.
4. When the display flashes the distance setting, tap the MODE button to advance to the desired setting.
5. Press and hold the MODE button to save the setting and advance to the next display option.
6. Repeat the procedure to change remaining display settings.

CLOCK MODE

TIP
The clock must be reset any time the battery has been disconnected or discharged.

To set the clock time, do the following:

1. Turn the key to the ON position. Use the MODE button to toggle to the odometer display.
2. Press and *hold* the MODE button until the hour segment flashes. Release the button.
3. With the segment flashing, tap the MODE button to advance to the desired setting.
4. Press and *hold* the MODE button until the next segment flashes. Release the button.

5. Repeat steps 3-4 twice to set the 10-minute and 1-minute segments. After completing the 1-minute segment, step 4 will save the new settings and exit the clock mode.
6. Turn the key to the OFF position.

ODOMETER MODE

The odometer records and displays the distance traveled by the vehicle.

TRIP METER MODE

The trip meter records the distance traveled by the vehicle if reset before each trip. To reset, select the trip meter mode. Press and hold the MODE button until the meter resets to zero. In the Rider Information Center, the trip meter display contains a decimal point, but the odometer displays without a decimal point.

HOUR METER MODE

This mode logs the total hours the engine has been in operation.

PROGRAMMABLE SERVICE INTERVAL

When the hours of engine operation equal the programmed service interval setting, the wrench icon will flash for 5 seconds each time the engine is started. When this feature is enabled, it provides a convenient reminder to perform routine maintenance. The service interval is programmed at 50 hours at the factory.

To change the service interval, do the following:

1. Press the MODE button until remaining service hours display.
2. Press and hold the MODE button.
3. When the service hours flash, press and release the MODE button to advance the hours to the desired setting (including OFF). Press and hold the MODE button to set the new service hour interval.

DIAGNOSTIC DISPLAY MODE

The EFI diagnostic display mode is for informational purposes only. Your POLARIS dealer can provide for all major repairs.

The diagnostic mode is accessible only when the check engine warning indicator activates after the key has been turned on. Leave the key on if you want to view the active code (failure code).

The diagnostic mode becomes inaccessible if the key is turned off and on and the warning indicator is no longer active. This allows the determination of persistent as well as intermittent faults.

Inactive codes are stored in the history of the unit.

ENGINE ERROR CODES

The error screen displays only when the CHECK ENGINE light is on or when it goes on and off during one ignition cycle. Error codes are not stored. When the key is turned OFF, the code and message is lost, but will reappear if the fault reoccurs after restarting the engine.

If the CHECK ENGINE light illuminates, retrieve the error codes from the display.

1. If the error codes are not displayed, use the MODE button to toggle until “Ck ENG” displays on the main line of the display.
2. Press and hold the MODE button to enter the diagnostics code menu.
3. Record the three numbers displayed in the gear position, clock and odometer displays.
4. Press the MODE button to advance to the next error code.
5. Press and hold the MODE button to exit the diagnostics code menu.
6. Your authorized POLARIS dealer can provide code details and diagnosis.

INDICATOR LAMPS

LAMP	INDICATES	CONDITION
MPH	Vehicle Speed	When standard mode is selected, speed displays in miles per hour.
km/h		When metric mode is selected, speed displays in kilometers per hour.
	Over Temperature	This lamp illuminates to indicate an overheated engine. If the indicator flashes, the overheating condition remains, and the system will automatically reduce engine power.
	Electric Power Steering (EPS) Warning (if equipped)	This indicator illuminates briefly when the key is turned to the ON position. If the light remains on, the EPS system is inoperative. Your dealer can assist.
N	Neutral	This lamp illuminates when the transmission is in neutral and the ignition key is in the ON position.
	High Beam	This lamp illuminates when the headlamp switch is set to high beam.
	Helmet/Seat Belt	This lamp is a reminder to the operator to ensure all riders are wearing helmets and seat belts before operating. The driver's seat belt is equipped with a seat belt interlock. Vehicle speed will be limited to 15 MPH (24 km/h) if the seat belt is not secured.
	Check Engine	This indicator appears if an Electronic Fuel Injection (EFI) related fault occurs. Do not operate the vehicle if this warning appears. Serious engine damage could result. Your dealer can assist.

DIAGNOSTIC DISPLAY CODE DEFINITIONS

Open Load: There is a break in the wires that lead to the item listed in the chart (injector, fuel pump, etc.), or the item has failed.

Short-to-Ground: The wire is shorted to ground between the electronic control unit and the item listed in the chart.

Shorted Load: The wires leading to the item listed in the chart are shorted together, or the item has shorted internally.

Short-to-Battery: The wire leading from the item listed in the chart to the electronic control unit is shorted to a wire at battery voltage.

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
Throttle Position Sensor	Voltage Too High	51	3
	Voltage Too Low	51	4
Engine Temperature Sensor	Voltage Too High	110	3
	Voltage Too Low	110	4
	Temperature Too High	110	16
	Engine Overheat Shutdown	110	0
Intake Air Temperature Sensor	Voltage Too High	105	3
	Voltage Too Low	105	4
Manifold Absolute Pressure Sensor	Voltage Too High	102	3
	Voltage Too Low	102	4
	Signal Out of Range	102	2
Crankshaft Position Sensor	Circuit Fault	636	8
	Plausibility Fault	636	2
Vehicle Speed Signal	Speed Too High	84	8
	Plausibility Fault	84	2
Gear Sensor Signal	Voltage Too Low	523	4
	Voltage Too Low	523	3
	Signal Fault	523	2
Injector 1 (MAG) (SDI Part Load)	Driver Circuit Open/ Grounded	651	5

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
	Driver Circuit Short to B+	651	3
	Driver Circuit Grounded	651	4
Injector 2 (PTO) (SDI Part Load)	Driver Circuit Open/ Grounded	652	5
	Driver Circuit Short to B+	652	3
	Driver Circuit Grounded	652	4
Ignition Coil Primary Driver 1 (MAG)	Driver Circuit Short to B+	1268	3
Ignition Coil Primary Driver 2 (PTO)	Driver Circuit Short to B+	1269	3
Fuel Pump Driver Circuit	Driver Circuit Open/ Grounded	1347	5
	Driver Circuit Short to B+	1347	3
	Driver Circuit Grounded	1347	4
Fan Relay Driver Circuit	Driver Circuit Open/ Grounded	1071	5
	Driver Circuit Short to B+	1071	3
	Driver Circuit Grounded	1071	4
Idle Air Control	Driver Circuit Open/ Grounded	634	5
	Driver Circuit Short to B+	634	3
	Driver Circuit Grounded	634	4
	Position Out of Range	634	7
Starter Enable Circuit	Driver Circuit Open/ Grounded	1321	5
	Driver Circuit Short to B+	1321	3

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
	Driver Circuit Grounded	1321	4
Chassis Relay	Driver Circuit Open/ Grounded	520208	5
	Driver Circuit Short to B+	520208	3
	Driver Circuit Grounded	520208	4
All Wheel Drive Control	Driver Circuit Open/ Grounded	520207	5
	Driver Circuit Short to B+	520207	3
	Driver Circuit Grounded	520207	4
System Power	Voltage Too High	168	3
	Voltage Too Low	168	4
Throttle Safety Signal	Voltage Too High	520194	3
	Voltage Too Low	520194	4
	Signal Out of Range	520194	2
	Throttle Stuck	520194	7
Active Descent Control System	Driver Circuit Open/ Grounded	520203	5
	Driver Circuit Short to B+	520203	3
	Driver Circuit Grounded	520203	4
Idle Speed	Speed Too High	520211	3
	Speed Too Low	520211	4

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
EPS MODELS ONLY			
Vehicle Speed Sensor	Data Valid But Above Normal Operational Range - Most Severe Level	84	0
	Data Erratic, Intermittent Or Incorrect	84	2
	Abnormal Rate Of Change	84	10
	Received Network Data In Error	84	19
System Power	Data Valid But Above Normal Operational Range - Most Severe Level	168	0
	Voltage Above Normal, Or Shorted To High Source	168	3
	Voltage Below Normal, Or Shorted To Low Source	168	4
Engine Speed	Data Valid But Above Normal Operational Range - Most Severe Level	190	0
	Data Erratic, Intermittent Or Incorrect	190	2
	Received Network Data In Error	190	19
ECU Memory	Bad Intelligent Device Or Component	628	12
	Out Of Calibration	628	13
Calibration	Out Of Calibration	630	13
Steering Over Current Shut Down	Current Above Normal Or Grounded Circuit	520221	6
Steering Excessive Current Error	Current Above Normal Or Grounded Circuit	520222	6

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
EPS MODELS ONLY			
Steering Torque Partial Failure	Condition Exists	520223	31
Steering Torque Full Failure	Condition Exists	520224	31
EPAS Inverter Temperature	Data Valid But Above Normal Operational Range - Most Severe Level	520225	0
	Data Valid But Above Normal Operating Range - Moderately Severe Level	520225	16
EPAS Communications Receive Data Error	Data Erratic, Intermittent Or Incorrect	520226	2
	Condition Exists	520226	31
Position Encoder Error	Root Cause Not Known	520228	11
	Bad Intelligent Device Or Component	520228	12
	Condition Exists	520228	31
EPAS Software Error	Bad Intelligent Device Or Component	520229	12
	Condition Exists	520229	31
EPAS Power Save Condition	Condition Exists	520231	31
EPS SEPIC Voltage Error	Voltage Above Normal, Or Shorted To High Source	524086	3
	Voltage Below Normal, Or Shorted To Low Source	524086	4

DIGITAL INSTRUMENT CLUSTER (IF EQUIPPED)

OVERVIEW

NOTE

The use of a high pressure washer may damage the instrument cluster. Wash the vehicle by hand or with a garden hose using mild soap. Do not use alcohol to clean the instrument cluster. Do not allow insect sprays to contact the lens. Immediately clean off any gasoline that splashes on the instrument cluster.

① **Gear Indicator**	H = High Gear L = Low Gear N = Neutral R = Reverse Gear P = Park – = Gear Signal Error (or shifter between gears)
② **Display Area 2**	This area displays odometer, trip meter, trip meter 2, voltage, engine temperature, engine hour meter, programmable service hour interval, ground speed, or engine RPM.
③ **Display Area 1**	This area displays engine RPM, ground speed, or coolant temperature.
④ **Fuel Gauge**	The segments of the fuel gauge show the level of fuel in the fuel tank. When the last segment clears, a low fuel warning is activated. All segments including the fuel icon will flash. Refuel immediately.
⑤ **Service Indicator**	A flashing wrench symbol alerts the operator that the preset service interval has been reached. Your POLARIS dealer can provide scheduled maintenance. See page 66 for more information.
⑥ **Clock**	The clock displays time in a 12-hour or 24-hour format. See page 63 for more information.
⑦ **AWD Indicator**	Segments of the indicator illuminate based on drive mode engaged.

INDICATOR LAMPS

① Check Engine		This indicator appears if an EFI-related fault occurs. Do not operate the vehicle if this warning appears. Serious engine damage could result. Your authorized POLARIS dealer can assist.
② EPS Warning (if equipped)		This indicator illuminates when a fault has occurred in the EPS system. Your authorized POLARIS dealer can assist. EPS operation is possible with key on/engine off for up to 5 minutes.
③ Engine Hot		This lamp illuminates to indicate an overheated engine. If the indicator flashes, a severe overheating condition exists.
④ Neutral		This lamp illuminates when the transmission is in neutral and the ignition key is in the ON position.
⑤ Helmet/Seat Belt		This lamp flashes for several seconds when the key is turned to the ON position. The lamp is a reminder to wear helmet and seat belt (if equipped) before operating.
⑥ High Beam		This lamp illuminates when the headlamp switch is set to high beam.
⑦ Chassis Fault		If applicable.
⑧ Performance Limited		If applicable.

DISPLAY AREA 1

Pressing the MODE button will change the information displayed in Area 1 ①.

Speed		Engine Temperature	
RPM		Ambient Temperature (Optional)	

DISPLAY AREA 2

Toggle the Up/Down buttons to change the information displayed in Area 2 ②.

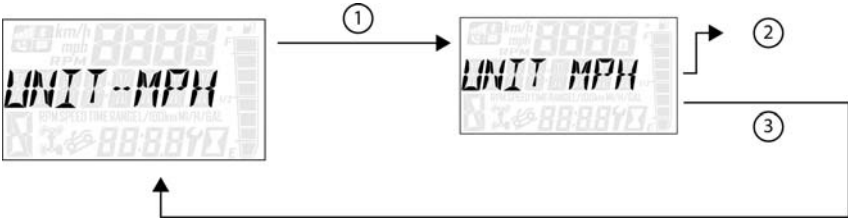
Odometer		Engine Temperature	
Trip 1		Ambient Temperature (Optional)	
Trip 2		RPM	
Voltage		Speed	
Engine Hours		Service Hours	

OPTIONS MENU

Press and hold the MODE button to enter the Options Menu.

OPTIONS MENU	NOTES
Diagnostic Codes	Only displays if fault codes are present or stored
Units - Distance	Select MPH or KPH
Units - Temp	Select between °F and °C
Clock	Select between 12H or 24H, and set time
Backlight Color	Select between Blue or Red
Backlight Level	Set backlight brightness level
Service Hours	View/Set Service hours
Exit Menu	Exit

UNIT SELECTION DISTANCE



1. Press and hold the MODE button to enter the Options Menu.

NOTE
"OPTIONS" will display on the screen for 3 seconds before showing first menu item

2. Select "Units-Distance" from the Options Menu by pressing the MODE button.

   Reference the image shown above:

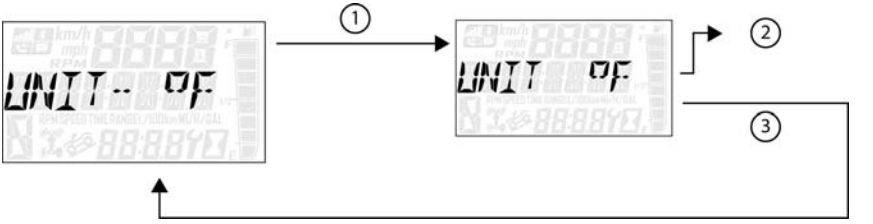
   ① Press the MODE button.

   ② Toggle the Up/Down Buttons to change the units (MPH or KPH)

   ③ With the correct unit displayed, Press the mode button which will set the unit and return to the Options Menu.

3. To exit the Options Menu the user can select Exit Menu function from Options Menu, can hold Mode Button and exit out of Options Menu, or not press any button for 10 seconds, which will exit out of the Options Menu.

UNIT SELECTION TEMPERATURE



1. Press and hold the MODE button to enter the Options Menu.

NOTE
"OPTIONS" will display on the screen for 3 seconds before showing first menu item

2. Select "Units - Temp" from the Options Menu by pressing the MODE button.

   Reference the image shown above:

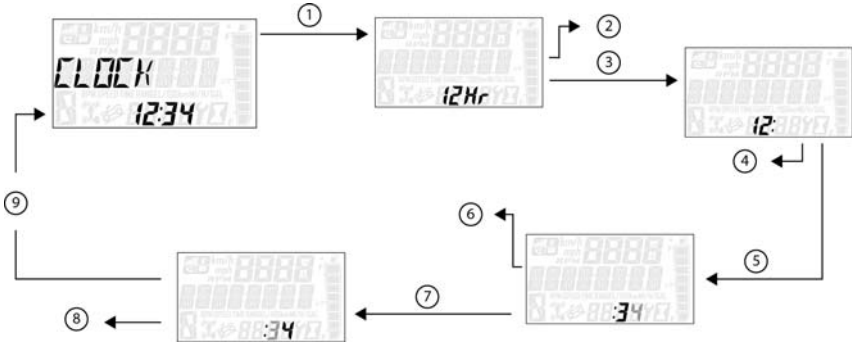
   ① Press the MODE button.

   ② Toggle the Up/Down Buttons to change the units (°F or °C)

   ③ With the correct unit displayed, Press the mode button which will set the unit and return to the Options Menu.

3. To exit the Options Menu the user can select Exit Menu function from Options Menu, can hold Mode Button and exit out of Options Menu, or not press any button for 10 seconds, which will exit out of the Options Menu.

CLOCK



1. Press and hold the MODE button to enter the Options Menu.

NOTE
"OPTIONS" will display on the screen for 3 seconds before showing first menu item

2. Select "Clock" from the Options Menu by pressing the MODE button.

   Reference the image shown above:

   ① Press the MODE button.

   ② Toggle the Up/Down Buttons to change the units (12H or 24H)

   ③ With the correct unit displayed, Press the mode button which will set the unit.

   ④ Toggle the Up/Down Buttons to change the units (Cycles Hours)

   ⑤ With the correct unit displayed, Press the mode button which will set the unit.

   ⑥ Toggle the Up/Down Buttons to change the units (Cycles 10s of Minutes)

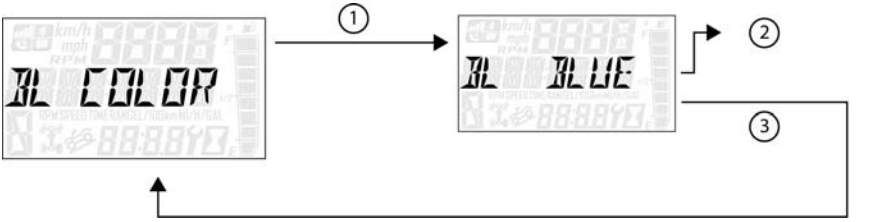
   ⑦ With the correct unit displayed, Press the mode button which will set the unit.

   ⑧ Toggle the Up/Down Buttons to change the units (Cycles 1s of Minutes)

   ⑨ With the correct unit displayed, Press the mode button which will set the unit and return to the Options Menu.

3. To exit the Options Menu the user can select Exit Menu function from Options Menu, can hold Mode Button and exit out of Options Menu, or not press any button for 10 seconds, which will exit out of the Options Menu.

BACK LIGHT COLOR



1. Press and hold the MODE button to enter the Options Menu.

NOTE
"OPTIONS" will display on the screen for 3 seconds before showing first menu item

2. Select "Backlight Color" from the Options Menu by pressing the MODE button.

   Reference the image shown above:

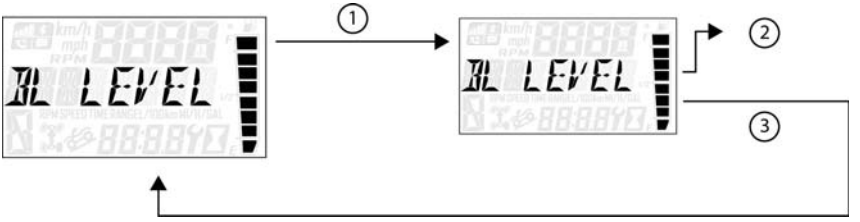
   ① Press the MODE button.

   ② Toggle the Up/Down Buttons to change the units (Blue or Red)

   ③ With the correct unit displayed, Press the mode button which will set the unit and return to the Options Menu.

3. To exit the Options Menu the user can select Exit Menu function from Options Menu, can hold Mode Button and exit out of Options Menu, or not press any button for 10 seconds, which will exit out of the Options Menu.

BACK LIGHT LEVEL



1. Press and hold the MODE button to enter the Options Menu.

NOTE
"OPTIONS" will display on the screen for 3 seconds before showing first menu item

2. Select "Backlight Level" from the Options Menu by pressing the MODE button.

   Reference the image shown above:

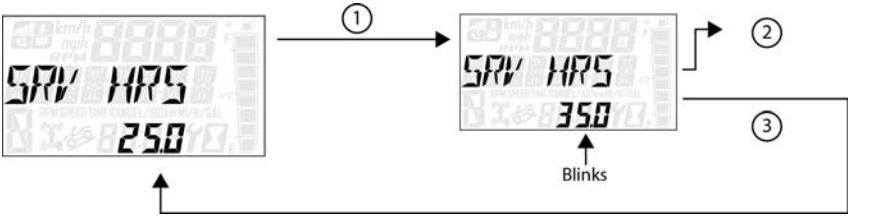
   ① Press the MODE button.

   ② Toggle the Up/Down Buttons to change the units (Increase or Decrease Level)

   ③ With the correct unit displayed, Press the mode button which will set the unit and return to the Options Menu.

3. To exit the Options Menu the user can select Exit Menu function from Options Menu, can hold Mode Button and exit out of Options Menu, or not press any button for 10 seconds, which will exit out of the Options Menu.

SERVICE HOURS



1. Press and hold the MODE button to enter the Options Menu.

NOTE

"OPTIONS" will display on the screen for 3 seconds before showing first menu item

2. Select "Service Hours" from the Options Menu by pressing the MODE button.

   Reference the image shown above:

   ① Press the MODE button.

   ② Toggle the Up/Down Buttons to change the units (0, 5, 10, - 95,100)

   ③ With the correct unit displayed, Press the mode button which will set the unit and return to the Options Menu.

NOTE

To reset service hours after they have counted down to "0.0" reselect the existing setpoint or select a new service hour value.

3. To exit the Options Menu the user can select Exit Menu function from Options Menu, can hold Mode Button and exit out of Options Menu, or not press any button for 10 seconds, which will exit out of the Options Menu.

BLUETOOTH OPERATION

The Bluetooth Classic functionality allows users to pair their phones with the vehicle's digital gauge. This function allows users to receive call and text alerts while operating the vehicle.

PAIRING YOUR PHONE TO THE DIGITAL GAUGE

Use the following procedure to pair your phone with the vehicle's digital gauge.

NOTE

Bluetooth functionality is compatible with both iOS and Android phones. For iOS phones, you must go to the Settings option and enable notifications. Most Android phones will prompt the user automatically to enable notifications as part of the pairing process.

1. Make sure Bluetooth is enabled on your phone.
2. Access the options menu on the vehicle's digital gauge and select *BT PAIR*. The Bluetooth icon ① will begin to blink.
3. Find and select *Polaris Gauge* on your phone's Bluetooth menu or prompt. Pairing should occur momentarily. Pairing mode will continue for up to 90 seconds or if you exit the *BT PAIR* menu.

After successfully pairing the phone, the vehicle's digital gauge will automatically reconnect with the phone each time it is powered on and within range. No further action is required by the user at this point.

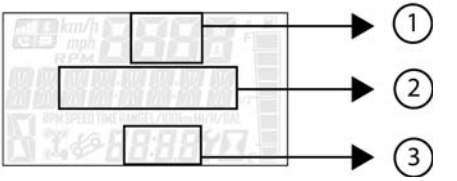
NOTE

Once the digital gauge is powered off, Bluetooth connectivity will cease. Also, when a new phone is paired with the digital gauge, all missed call and text information from the previous phone will be erased. Up to 16 different phone pairings can be saved to the digital gauge. The digital gauge does not support systems below Android version 4.2 and iOS version 8.4.

SAFEGUARDS

- If a text message is received while the vehicle is moving faster than 2 KPH, only the sender's name is shown onscreen.
- If you are browsing any of the Bluetooth menus and the vehicle starts to move faster than 2 KPH, the menu will automatically display *VEHICLE MOVING*.
- If you attempt to access Bluetooth menus while the vehicle is moving faster than 2 KPH, the screen will display *VEHICLE MOVING* momentarily, and then it will redirect to the options menu.

DIAGNOSTIC CODE



NOTE

Diagnostic Code Screen will show available MIL that has come on during that ignition cycle.

1. Press and hold the MODE button to enter the Options Menu.

NOTE

"OPTIONS" will display on the screen for 3 seconds before showing first menu item

2. Select "Diagnostic Codes" from the Options Menu by pressing the MODE button.

   Toggle the Up/Down Buttons to cycle through Code(s).

NOTE

This option will only be available if a fault code was set or is active during the current ignition key 'on' cycle. Turning off the ignition will clear any save fault codes from the gauge.

Reference the image shown above:

① Area A will Display FMI (XX)

② Area B will Display SPN (XXXXXX)

③ Clock Area will Display Count (XXX)

3. To exit the Options Menu the user can select Exit Menu function from Options Menu, can hold Mode Button and exit out of Options Menu, or not press any button for 10 seconds, which will exit out of the Options Menu.

DIAGNOSTIC DISPLAY CODE DEFINITIONS

Open Load: There is a break in the wires that lead to the item listed in the chart (injector, fuel pump, etc.), or the item has failed.

Short-to-Ground: The wire is shorted to ground between the electronic control unit and the item listed in the chart.

Shorted Load: The wires leading to the item listed in the chart are shorted together, or the item has shorted internally.

Short-to-Battery: The wire leading from the item listed in the chart to the electronic control unit is shorted to a wire at battery voltage.

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
Throttle Position Sensor	Voltage Too High	51	3
	Voltage Too Low	51	4
Engine Temperature Sensor	Voltage Too High	110	3
	Voltage Too Low	110	4
	Temperature Too High	110	16
	Engine Overheat Shutdown	110	0
Intake Air Temperature Sensor	Voltage Too High	105	3
	Voltage Too Low	105	4
Manifold Absolute Pressure Sensor	Voltage Too High	102	3
	Voltage Too Low	102	4
	Signal Out of Range	102	2
Crankshaft Position Sensor	Circuit Fault	636	8
	Plausibility Fault	636	2
Vehicle Speed Signal	Speed Too High	84	8
	Plausibility Fault	84	2
Gear Sensor Signal	Voltage Too Low	523	4
	Voltage Too Low	523	3
	Signal Fault	523	2
Injector 1 (MAG) (SDI Part Load)	Driver Circuit Open/ Grounded	651	5

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
	Driver Circuit Short to B+	651	3
	Driver Circuit Grounded	651	4
Injector 2 (PTO) (SDI Part Load)	Driver Circuit Open/ Grounded	652	5
	Driver Circuit Short to B+	652	3
	Driver Circuit Grounded	652	4
Ignition Coil Primary Driver 1 (MAG)	Driver Circuit Short to B+	1268	3
Ignition Coil Primary Driver 2 (PTO)	Driver Circuit Short to B+	1269	3
Fuel Pump Driver Circuit	Driver Circuit Open/ Grounded	1347	5
	Driver Circuit Short to B+	1347	3
	Driver Circuit Grounded	1347	4
Fan Relay Driver Circuit	Driver Circuit Open/ Grounded	1071	5
	Driver Circuit Short to B+	1071	3
	Driver Circuit Grounded	1071	4
Idle Air Control	Driver Circuit Open/ Grounded	634	5
	Driver Circuit Short to B+	634	3
	Driver Circuit Grounded	634	4
	Position Out of Range	634	7
Starter Enable Circuit	Driver Circuit Open/ Grounded	1321	5
	Driver Circuit Short to B+	1321	3

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
	Driver Circuit Grounded	1321	4
Chassis Relay	Driver Circuit Open/ Grounded	520208	5
	Driver Circuit Short to B+	520208	3
	Driver Circuit Grounded	520208	4
All Wheel Drive Control	Driver Circuit Open/ Grounded	520207	5
	Driver Circuit Short to B+	520207	3
	Driver Circuit Grounded	520207	4
System Power	Voltage Too High	168	3
	Voltage Too Low	168	4
Throttle Safety Signal	Voltage Too High	520194	3
	Voltage Too Low	520194	4
	Signal Out of Range	520194	2
	Throttle Stuck	520194	7
Active Descent Control System	Driver Circuit Open/ Grounded	520203	5
	Driver Circuit Short to B+	520203	3
	Driver Circuit Grounded	520203	4
Idle Speed	Speed Too High	520211	3
	Speed Too Low	520211	4

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
EPS MODELS ONLY			
Vehicle Speed Sensor	Data Valid But Above Normal Operational Range - Most Severe Level	84	0
	Data Erratic, Intermittent Or Incorrect	84	2
	Abnormal Rate Of Change	84	10
	Received Network Data In Error	84	19
System Power	Data Valid But Above Normal Operational Range - Most Severe Level	168	0
	Voltage Above Normal, Or Shorted To High Source	168	3
	Voltage Below Normal, Or Shorted To Low Source	168	4
Engine Speed	Data Valid But Above Normal Operational Range - Most Severe Level	190	0
	Data Erratic, Intermittent Or Incorrect	190	2
	Received Network Data In Error	190	19
ECU Memory	Bad Intelligent Device Or Component	628	12
	Out Of Calibration	628	13
Calibration	Out Of Calibration	630	13
Steering Over Current Shut Down	Current Above Normal Or Grounded Circuit	520221	6
Steering Excessive Current Error	Current Above Normal Or Grounded Circuit	520222	6

DIAGNOSTIC CODES			
COMPONENT	**CONDITION**	**SPN**	**FMI**
EPS MODELS ONLY			
Steering Torque Partial Failure	Condition Exists	520223	31
Steering Torque Full Failure	Condition Exists	520224	31
EPAS Inverter Temperature	Data Valid But Above Normal Operational Range - Most Severe Level	520225	0
	Data Valid But Above Normal Operating Range - Moderately Severe Level	520225	16
EPAS Communications Receive Data Error	Data Erratic, Intermittent Or Incorrect	520226	2
	Condition Exists	520226	31
Position Encoder Error	Root Cause Not Known	520228	11
	Bad Intelligent Device Or Component	520228	12
	Condition Exists	520228	31
EPAS Software Error	Bad Intelligent Device Or Component	520229	12
	Condition Exists	520229	31
EPAS Power Save Condition	Condition Exists	520231	31
EPS SEPIC Voltage Error	Voltage Above Normal, Or Shorted To High Source	524086	3
	Voltage Below Normal, Or Shorted To Low Source	524086	4

OPERATION

⚠ WARNING

Failure to operate the vehicle properly can result in a collision, loss of control, accident or rollover, which may result in serious injury or death. Read and understand all safety warnings outlined in the safety section of this owner's manual.

VEHICLE BREAK-IN PERIOD

The break-in period for your new POLARIS vehicle is the first 25 hours of operation, or the time it takes to use the first two tanks full of gasoline. No single action on your part is as important as a proper break-in period. Careful treatment of a new engine and drive components will result in more efficient performance and longer life for these components. Perform the following procedures carefully.

NOTICE

Excessive heat build-up during the first three hours of operation will damage close-fitted engine parts and drive components. Do not operate at full throttle or high speeds during the first three hours of use.

Use of any improper oils may cause serious engine damage. POLARIS PS-4 Full Synthetic 5W-50 4-Cycle Oil is specifically formulated for your 4-cycle engine.

PVT BREAK-IN (CLUTCHES/BELT)

A proper break-in of the clutches and drive belt will ensure a longer life and better performance. Break in the clutches and belt by operating at slower speeds during the break-in period as recommended. Pull only light loads. Avoid aggressive acceleration and high speed operation during the break-in period.

If a belt fails, always clean any debris from the PVT intake and outlet duct and from the clutch and engine compartments when replacing the belt.

ENGINE AND DRIVETRAIN BREAK-IN

1. Fill the fuel tank with gasoline. See the Fuel Tank section for details. Always exercise extreme caution whenever handling gasoline.
2. Check the oil level. See the Oil Check section for reference. Add the recommended oil as needed to maintain the oil level in the safe operating range.
3. Drive slowly at first. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
4. Avoid aggressive use of the brakes.
5. Vary throttle positions. Do not operate at sustained idle.
6. Pull only light loads.
7. Perform regular checks on fluid levels, controls and areas outlined on the daily pre-ride inspection checklist.
8. During the break-in period, change both the oil and the filter at 25 hours or one month.
9. Check fluid levels of transmission and all gearcases after the first 25 hours of operation and every 100 hours thereafter.

PRE-RIDE CHECKLIST

Failure to inspect and verify that the ATV is in safe operating condition before operating increases the risk of an accident. Always inspect the ATV before each use to make sure it's in safe operating condition.

ITEM	REMARKS	REF.
Passenger seat latch (if equipped)	Ensure latch is secure	page 134
Hand brake/lever travel	Ensure proper operation	page 130
Foot brake	Ensure proper operation	page 130
Brake fluid	Ensure proper levels	page 128
Front suspension	Inspect, lubricate if necessary	page 115
Rear suspension	Inspect, lubricate if necessary	page 115
Steering	Ensure free operation	–
Tires	Inspect condition and pressure	page 136

ITEM	REMARKS	REF.
Wheels/fasteners	Inspect, ensure fastener tightness	page 136 page 137
Frame nuts, bolts, fasteners	Inspect, ensure tightness	–
Fuel and oil	Ensure proper levels	page 26 page 116
Coolant level	Ensure proper level	page 127
Coolant hoses	Inspect for leaks	–
Throttle	Ensure proper operation	page 35
Indicator lights/switches	Ensure proper operation	page 31
Engine stop switch	Ensure proper operation	page 33
Air filter, pre-filter	Inspect, clean	page 138
Headlights	Check operation	page 140
Brake light/tail lamp	Check operation	page 140
Riding gear	Wear approved helmet, goggles, and protective clothing	page 12
Mirrors (if equipped)	Adjust for best side/rear vision	–
Winch (if equipped)	Inspect cable and switch.	page 95

STARTING THE ENGINE

1. Position the vehicle on a level surface outdoors or in a well- ventilated area.
2. Place the transmission in PARK.
3. Lock the parking brake.

TIP

The starter interlock will prevent the engine from starting if the transmission is in gear and the brake is not engaged.

4. Sit on the vehicle and move the engine stop switch to RUN.

TIP

Do not press the throttle while starting the engine.

5. Turn the ignition key past the ON position to engage the starter. Activate the starter for a maximum of five seconds, releasing the key when the engine starts.
6. If the engine does not start, return the key to the OFF position and wait five seconds before attempting to start again. Activate the starter for another five seconds if necessary. Repeat this procedure until the engine starts.

NOTICE

Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating the vehicle.

STOPPING THE ENGINE

1. Release the throttle pedal completely and brake to a complete stop.
2. Place the transmission in PARK.
3. Turn the engine off.
4. Slowly release the brake pedal and make sure the transmission is in PARK before exiting the vehicle.

⚠ WARNING

A rolling vehicle can cause serious injury. Always place the transmission in PARK when stopping the engine.

COLD WEATHER OPERATION

If the vehicle is used year-round, check the oil level frequently. A rising oil level could indicate the accumulation of contaminates such as water or excess fuel in the bottom of the crankcase. Water in the bottom of the crankcase can lead to engine damage and must be drained. Water accumulation increases as outside temperature decreases.

See your dealer for engine heater kits, which provide quicker warm-ups and easier starting in colder weather.

WHEN TO USE LOW RANGE AND HIGH RANGE

CONDITION	RANGE TO USE
Operating at speeds less than 11 km/h	Low
Towing heavy loads	Low
Operating in rough or rugged terrain	Low
Operating at speeds greater than 11 km/h	High

DRIVING PROCEDURES

1. Wear protective riding gear. See the Safe Riding Gear section.
2. Perform the pre-ride inspection.
3. Place the transmission in PARK.
4. Lock the parking brake.
5. Mount the vehicle from the left side.
6. Sit upright with both feet on the footrests and both hands on the handlebars.
7. Start the engine and allow it to warm up.
8. Shift the transmission into gear.
9. Check your surroundings and determine your path of travel.
10. Release the parking brake.
11. Slowly depress the throttle with your right thumb and begin driving.
12. Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces.

DRIVING WITH A PASSENGER

1. Never carry more than one passenger on a 2-up vehicle.
2. Do not carry a passenger on a 2-up vehicle until you have at least two hours of driving experience with the vehicle.
3. Never allow anyone under 12 years of age to ride as a passenger on a 2-up vehicle. Make sure any passenger is tall enough to comfortably and safely reach the grab handles and footrests. Allow a passenger to ride only in the approved passenger seat.
4. Make sure the passenger is wearing appropriate riding gear, including an approved helmet with a rigid chin guard. See the Rider Comfort section for details.

5. Perform the pre-ride inspection. See the Pre-Ride Checklist section for details.
6. Lock the parking brake.
7. Mount the vehicle from the left side. After the operator is seated, the passenger should mount the vehicle from the left side. Always make sure the brake is engaged to ensure the vehicle remains motionless whenever a passenger mounts or dismounts.
8. Slow down. Control may be more difficult with a passenger on board. Allow more time and distance for braking.
9. Ride to the ability of your passenger, instead of to your own ability. Avoid unexpected or aggressive maneuvers that could cause a passenger to fall from the vehicle.
10. Do not cross a hillside with a passenger on board.
11. A passenger should always be seated in the passenger seat with both feet on the footrests and both hands on the passenger grab handles at all times. The passenger should never hold on to the operator. Never secure a passenger to the vehicle or to the operator with a belt, rope or similar device.
12. Make sure the passenger understands the importance of “active riding.” When hill-climbing or performing maneuvers, a passenger should shift body weight in the same manner in which the driver shifts body weight. For example, the passenger should lean to the inside of a turn along with the operator and should always lean uphill when climbing and descending hills.

TURNING THE VEHICLE

Your ATV is equipped with a solid rear axle, which drives both rear wheels equally at all times. This means that the wheel on the outside of the turn must travel a greater distance than the inside wheel when turning and the inside tire must slip traction slightly.

1. Slow down.
2. Never turn quickly when carrying a passenger or cargo.
3. Steer in the direction of the turn.

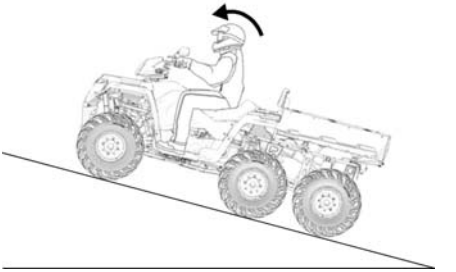
4. Keep both feet on the footrests.
5. Lean your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the rear wheels, allowing the turn to be made smoothly. The same leaning technique should be used for turning in reverse.
6. Practice making turns at slow speeds before attempting to turn at faster speeds.

⚠ WARNING

Turning improperly can result in vehicle rollover. Never turn abruptly or at sharp angles. Never turn at high speeds.

DRIVING UPHILL

Whenever traveling uphill, follow these precautions:



1. Always move the 4X4 switch to 4WDC before ascending or descending a hill.
2. Drive straight uphill.
3. Avoid steep hills. **Maximum incline is: 15°**
4. Avoid hills with slippery or loose surfaces.
5. Keep both feet on the footrests.
6. Shift body weight uphill. A passenger should also shift body weight uphill.
7. Proceed at a steady rate of speed to avoid stalling.
8. Be alert. Be prepared to take emergency action. This may include dismounting quickly.
9. Never open the throttle suddenly or make sudden gear changes.
10. Never go over the top of a hill at high speed.

If all forward speed is lost:

1. Keep your weight uphill. A passenger should also lean uphill.

2. *If the vehicle begins rolling downhill, never apply engine power.* Never apply the brakes aggressively while rolling backwards.
3. Apply the brakes gradually. When fully stopped, lock the hydraulic parking brake.
4. Dismount on the uphill side, or on the left side if the vehicle is pointed straight uphill. Have a passenger dismount first, then the operator may dismount.
5. Use the K-turn to turn around. Details of this procedure can be found in the Turning Around on a Hill section.

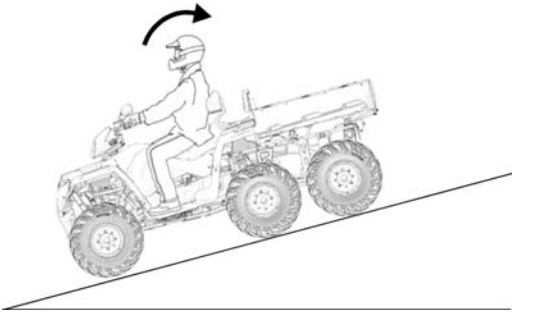
DRIVING ON A SIDEHILL (SIDEHILLING)

Avoid crossing the side of a hill (sidehilling), if possible. If sidehilling is unavoidable, follow these precautions:

1. Slow down.
2. Shift body weight uphill.
3. Keep your feet on the footrests.
4. Avoid hills with slippery or loose surfaces.
5. Avoid crossing the sides of steep hills.
6. Do not cross a hillside with a passenger on board. Ask the passenger to dismount and walk across the hillside before remounting the vehicle.
7. If the vehicle begins to slide or tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side *immediately*!

DRIVING DOWNHILL

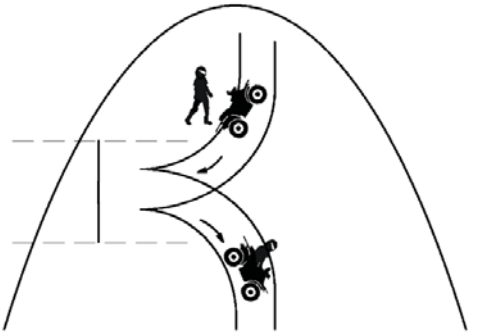
When driving downhill, follow these precautions:



1. Always move the 4X4 Switch to 4WDC before ascending or descending a hill. See the All Wheel Drive System section for details.
2. Avoid steep hills. **Maximum incline is: 15°**
3. Avoid hills with slippery or loose surfaces.
4. Always descend a hill with the transmission in forward gear. Do not descend a hill with the transmission in neutral.
5. Never drive downhill at high speed. Slow down.
6. Drive straight downhill. Avoid driving downhill at an angle, which can cause the vehicle to pitch sharply to one side.
7. Shift body weight uphill. A passenger should also shift body weight uphill.
8. Apply the brakes *slightly* to aid in slowing. Applying the brakes too firmly may cause the rear wheels to lock, which could result in loss of control.

TURNING AROUND ON A HILL (K-TURN)

If the vehicle stalls while climbing a hill, never back it down the hill! Use the K-Turn to turn around.



1. Stop the vehicle. Keep your weight uphill.
2. Always move the 4X4 switch to 4WDC before ascending or descending a hill. See the All Wheel Drive System section for details.
3. Lock the hydraulic parking brake.
4. Leave the transmission in forward gear. Turn the engine off.
5. Stay uphill of the vehicle and turn the handlebars full left.
6. Squeeze the brake lever to release the parking brake.
7. Slowly release the brake lever and allow the vehicle to roll around to your right until it's pointing across the hill or slightly downward.
8. Lock the hydraulic parking brake.
9. Remount from the uphill side. Keep your weight uphill. *A passenger should not remount until the vehicle returns to firm, level ground.*
10. Apply the foot brake.
11. With the transmission still in forward, start the engine.
12. Squeeze and release the brake lever to release the parking brake.
13. Release the foot brake and drive *slowly* downhill. Control speed with either the hand or foot brake until the vehicle is on level ground.

DRIVING THROUGH WATER

Your ATV can operate through water with a maximum recommended depth equal to the bottom of the footrests ①. Follow these procedures when operating through water:

1. Determine water depths and current before entering water.
2. Choose a crossing where both banks have gradual inclines.
3. Avoid operating through deep or fast-flowing water.

NOTICE

Major engine damage can result if the vehicle is not thoroughly inspected after operation in water. Perform the services outlined in the maintenance chart. The following areas need special attention: engine oil, transmission oil, demand drive fluid, rear gearcase oil, and all grease fittings.

If the vehicle tips or overturns in water, or if the engine stops during or after operating in water, restarting can result in serious engine damage. Transport the vehicle to your dealer for service before restarting the engine. If this is not possible, follow the vehicle immersion inspection and drying procedures outlined in the PVT Drying section, then see your dealer for service at the first opportunity.

4. After leaving water, test the brakes. Apply them lightly several times while driving slowly. The friction will help dry out the pads.

If it's unavoidable to enter water deeper than the footrest level:

- Proceed slowly. Avoid rocks and obstacles.
- Balance your weight carefully. Avoid sudden movements.
- Maintain a steady rate of speed. Do not make sudden turns or stops. Do not make sudden throttle changes.

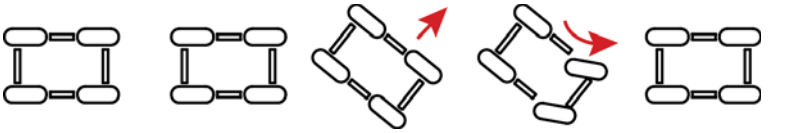
DRIVING ON SLIPPERY SURFACES

Whenever riding on slippery surfaces such as wet trails or loose gravel, or during freezing weather, follow these precautions:

1. Do not operate on excessively rough, slippery or loose terrain.
2. Slow down when entering slippery areas.
3. Engage 4X4 before wheels begin to lose traction.

NOTICE
Severe damage to drive train may occur if the 4X4 is engaged while the wheels are spinning. Allow the rear wheels to stop spinning before engaging 4X4, or engage 4X4 before wheels begin to lose traction.

4. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns, which can cause skids.
5. Never apply the brakes during a skid. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.



DRIVING OVER OBSTACLES

Follow these precautions when operating over obstacles:

1. Always check for obstacles before operating in a new area.
2. Look ahead and learn to read the terrain. Be constantly alert for hazards such as logs, rocks and low hanging branches.
3. Travel slowly and use extra caution when operating on unfamiliar terrain. Not all obstacles are immediately visible.
4. Never attempt to operate over large obstacles, such as rocks or fallen trees.
5. Always have a passenger dismount before operating over an obstacle that could cause a fall from the vehicle or vehicle tipover.

PARKING ON AN INCLINE

Avoid parking on an incline if possible. If it's unavoidable, follow these precautions:

1. Stop the engine.

2. Place the transmission in PARK.
3. Lock the parking brake.
4. Always block the rear wheels on the downhill side.

DRIVING IN REVERSE

Follow these precautions when operating in reverse:

1. Always check for obstacles or people behind the vehicle.
2. Always avoid backing downhill.
3. Back slowly.
4. Apply the brakes *lightly* for stopping.
5. Avoid turning at sharp angles.
6. Never open the throttle suddenly.
7. Do not use the override switch unless additional wheel speed is required for vehicle movement. Use the override with caution as rearward vehicle speed is greatly increased. Do not operate at wide open throttle. Operate the throttle just enough to maintain a desired speed.

NOTICE
Excessive throttle operation while in the speed limit mode may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage.

HAULING CARGO

⚠ WARNING

Overloading the vehicle or carrying or towing cargo improperly can alter vehicle handling and may cause loss of control or brake instability. Always follow these precautions when hauling cargo.

- Read and understand the load distribution warnings listed on the vehicle warning labels.
- Never exceed the stated load capacity for this vehicle. When determining the weight you are adding to the vehicle, include the weight of the operator, passenger, accessories, loads in the rack or box and the load on the trailer tongue. The combined weight of these items must not exceed the maximum weight capacity.
- REDUCE SPEED AND ALLOW GREATER DISTANCES FOR BRAKING WHEN HAULING CARGO OR TOWING. Use extreme caution when applying brakes. Avoid situations that require backing downhill.
- WEIGHT DISTRIBUTION on models with front and rear racks should be 1/3 on the front rack and 2/3 on the rear rack. Carrying loads on only one rack increases the possibility of vehicle overturn.
- CARRY LOADS AS LOW ON THE RACKS AS POSSIBLE. Carrying loads high on the racks raises the center of gravity of the vehicle and creates a less stable operating condition.
- SECURE ALL LOADS BEFORE OPERATING. Unsecured loads can create unstable operating conditions, which could result in loss of control of the vehicle.
- OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS. When handling off-centered loads that cannot be centered, securely fasten the load and operate with extra caution. Always attach the tow load to the hitch point designated for your vehicle.
- HEAVY LOADS CAN CAUSE BRAKING AND CONTROL PROBLEMS. Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations that may require backing downhill.
- USE EXTREME CAUTION when operating with loads that extend over the rack sides. Stability and maneuverability may be adversely affected, causing the vehicle to overturn.
- Towing is approved OFF-ROAD ONLY unless your vehicle is approved for on-road operation.
- TOWING SPEED should never exceed 16 km/h. Never exceed 8 km/h when towing loads in rough terrain, while cornering, or while ascending or descending hills.

1. Always read and understand the load distribution warning labels on the vehicle. Never exceed the weight capacities specified for the vehicle.
2. Always load the cargo box with the load as far forward as possible.

3. Always operate the vehicle with extreme caution whenever hauling or towing loads. Balance, handling and control may be affected.
4. NEVER exceed 16 km/h when rear cargo loads are above 91 kg.
5. Make sure the cargo box dump latch is securely latched before loading and operating. Unintentional dumping will result if weight is placed in the rear of the box and the latch is not secured.
6. Always attach a towed load to the hitch point.

TOWING LOADS

⚠ WARNING

Towing improperly can alter vehicle handling and may cause loss of control or brake instability.

Always follow these precautions when towing:

1. Never load more than 68.1 kg (150 lbs.) tongue weight on the towing bracket.
2. Always shift to low gear for towing.
3. When towing a disabled vehicle, place the disabled vehicle's transmission in neutral. Do not operate the vehicle faster than 16 km/h (10 MPH) when towing.
4. Towing a trailer increases braking distance. Do not operate the vehicle faster than 16 km/h (10 MPH) when towing. Towing a trailer increases braking distance.
5. Do not tow more than the recommended weight for the vehicle. See the towing capacity chart below or the Specifications chapter.
6. Attach a trailer to the trailer hitch bracket only. Do not attach a trailer to any other location or you may lose control of the vehicle.
7. Never tow a trailer on a grade steeper than 15°.

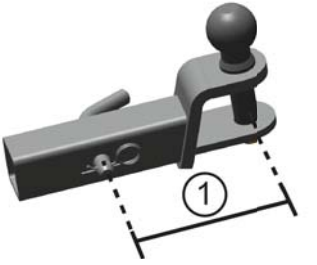
8. Always be mindful of the trailer's reaction to vehicle movements when driving off-road.

CAPACITIES	REAR HITCH
Maximum Towed Load (Level Ground)	750 kg
Maximum Vertical Hitch Weight	75 kg

NOTICE

Using an improper hitch or exceeding the maximum tongue weight capacity can result in serious damage to the vehicle and will void your warranty. Never install automotive accessories on your POLARIS vehicle. Always install POLARIS-approved (or equivalent) accessories designed for vehicle use.

Never install a hitch longer than 10 cm (①).



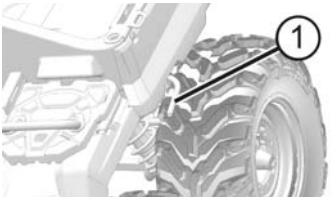
DUMPING CARGO

⚠ WARNING

If cargo weight is placed toward the rear of the cargo box, the load may dump unexpectedly and cause serious injury. When loading cargo, always position the weight as far forward and as low as possible.

1. Select a level site to dump the cargo box. Do not attempt to dump or unload the vehicle while parked on an incline.
2. Place the transmission in PARK.
3. Lock the parking brake.
4. Dismount the vehicle.
5. Check cargo distribution. If cargo has shifted to the rear of the box, exercise caution.

6. Lower the tailgate.
7. Pull one of the cargo box release levers ① forward.



8. Firmly grasp a cargo box handle and slowly lift the front of the cargo box to dump the cargo.

NOTICE

To prevent a crushing injury to hands and fingers, keep hands and fingers away from the lower front edge of the cargo box while lowering the box.

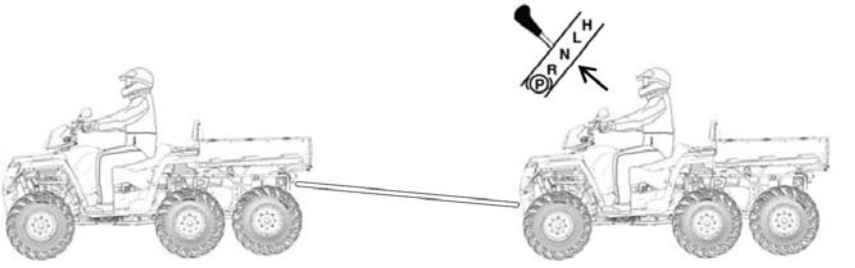
9. Lower the cargo box and make sure the release latch is secured.
10. Secure the tailgate.

NOTICE

Driving with the cargo box in the raised position can cause serious injury and damage to the vehicle. The cargo box could close unexpectedly and injure the driver. The rear tires will also catch the rear of the bed, damaging the vehicle and creating hazardous driving conditions. Never drive this vehicle with the cargo box in the raised position. Never leave this vehicle parked or unattended with the cargo box in the raised position.

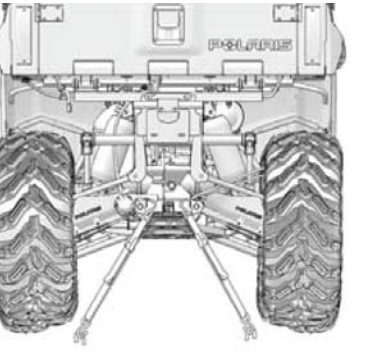
TOWING THE VEHICLE

If towing the vehicle is necessary, shift the transmission into neutral for better mobility and to prevent damage to the belt. Always attach the tow cable to the front tow loop of the disabled vehicle. A rider must be on board to steer the disabled vehicle while towing.



TRAILERING THE VEHICLE

Follow these procedures when transporting the vehicle.



1. Stop the engine.
2. Place the transmission in PARK.
3. Secure the fuel cap, oil cap and seat.
4. Remove the key to prevent loss during transporting.
5. Always tie the frame of the vehicle to the transporting unit securely with suitable straps or rope. Do not attach tie straps to the front A-arm bolt pockets, racks or handlebars.

WINCH GUIDE

These safety warnings and instructions apply if your vehicle came equipped with a winch or if you choose to add an accessory winch to your vehicle.

⚠ WARNING

Improper winch use can result in SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

Your winch may have a cable made of either wire rope or specially designed synthetic rope. The term “winch cable” will be used for either unless noted otherwise.

WINCH SAFETY PRECAUTIONS

1. Read all sections of this manual.
2. Never use alcohol or drugs before or while operating the winch.
3. Never allow children under 16 years of age to operate the winch.
4. Always wear eye protection and heavy gloves when operating the winch.
5. Always keep body, hair, clothing and jewelry clear of the winch cable, fairlead and hook when operating winch.
6. Never attempt to “jerk” a load attached to the winch with a moving vehicle. See the *Shock Loading* section on page 104.
7. Always keep the area around the vehicle, winch, winch cable, and load clear of people (especially children) and distractions while operating the winch.
8. Always turn the vehicle ignition power OFF when it and the winch are not being used.
9. Always be sure that at least five (5) full turns of winch cable are wrapped around the winch drum at all times. The friction provided by this wrapped cable allows the drum to pull on the winch cable and move the load.
10. Always apply your vehicle’s park brake and/or park mechanism to hold the vehicle in place during winching. Use wheel chocks if needed.
11. Always align the vehicle and winch with the load directly in front of the vehicle as much as possible. Avoid winching with the winch cable at an angle to the winching vehicle’s centerline whenever possible.
12. If winching at an angle is unavoidable, follow these precautions:
    a. Look at the winch drum occasionally. Never let the winch cable “stack” or accumulate at one end of the winch drum. Too much winch cable at one end of the winch drum can damage the winch and the winch cable.
    b. If stacking occurs, stop winching. Follow step 15 on page 97 to feed and rewind the cable evenly before continuing the winch operation.

13. Never winch up or down at sharp angles. This can destabilize the winching vehicle and possibly cause it to move without warning.
14. Never attempt to winch loads that weigh more than the winch's rated capacity.
15. The winch motor may become hot during winch use. If you winch for more than 45 seconds, or if the winch stalls during operation, stop winching and permit the winch to cool down for 10 minutes before using it again.
16. Never touch, push, pull or straddle the winch cable while winching a load.
17. Never let the winch cable run through your hands, even if wearing heavy gloves.

18. Never release the clutch on the winch when the winch cable is under load.
19. Never use the winch for lifting or transporting people.
20. Never use the winch to hoist or suspend a vertical load.
21. Never immerse or submerse your winch in water. Your dealer can provide service on your winch if this occurs.
22. Always inspect your winch and winch cable before each use.
23. Never winch the hook fully into the winch. This can cause damage to winch components.
24. Unplug the remote control from the vehicle when the winch is not in use to prevent inadvertent activation and use by unauthorized persons.
25. Never grease or oil the winch cable. This will cause the winch cable to collect debris that will shorten the life of the cable.

WINCH OPERATION

Read the Winch Safety Precautions in the preceding pages before using your winch.

TIP

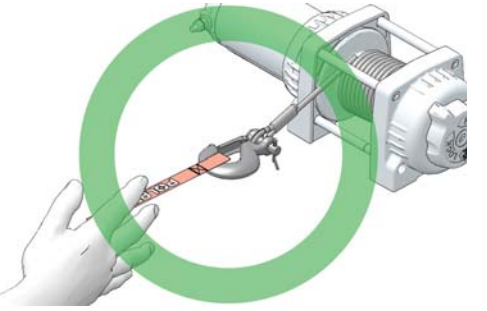
Consider practicing the operation and use of your winch before you actually need to use it in the field.

⚠ WARNING

Improper winch use can result in SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.
Each winching situation is unique.

- Take your time to think through the winching you are about to do.
- Proceed slowly and deliberately.
- Never hurry or rush during winching.
- Always pay attention to your surroundings.
- You may need to change your winching strategy if it is not working.
- Always remember that your winch is very powerful.
- There are simply some situations that you and your winch will not be able to deal with. Do not be afraid to ask others to help when this happens.

1. Always inspect the vehicle, winch, winch cable and winch controls for any signs of damage or parts in need of repair or replacement before each use. *Pay particular attention to the first 3 feet (1 meter) of winch cable if the winch is being used (or has been used) for lifting an accessory plow assembly.* Promptly replace any worn or damaged cable.
2. Never operate a winch or a vehicle in need of repair or service.
3. Always apply your vehicle's park brake and/ or park mechanism to hold the vehicle in place during winching. Use wheel chocks if needed.



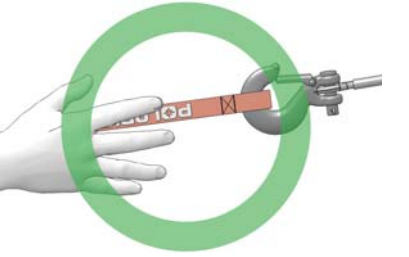
4. Always use the hook strap when handling the hook.

⚠ WARNING

Never put your fingers into the hook. This could lead to SEVERE INJURY.

- Attach the hook itself onto the load or use a tow strap or chain to secure the load to the winch cable.

No



Yes

TIP

A “tow strap” is NOT intended to stretch. A “recovery strap” is designed to stretch.

⚠ WARNING

Never use a recovery strap when winching due to the excessive energy that can be released if the winch cable breaks. This can result in SEVERE INJURY or DEATH. See the *Shock Loading* section on page 104.

- Never hook the winch cable back onto itself. This will damage the winch cable and may result in winch cable failure.

⚠ WARNING

Replace the winch cable at the first sign of damage to prevent SEVERE INJURY or DEATH in the event of failure. For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.

- If possible, keep the winch cable aligned with the centerline of the winching vehicle. This will help the spooling of the winch cable and reduce the load on the fairlead.

- If freeing a stuck vehicle by attaching to a tree, use an item such as a tow strap to avoid damaging the tree during winch operation. Sharp cables and chains can damage and even kill trees. Please remember to TreadLightly® (treadlightly.org).

- Before operating the winch, be sure that the safety latch on the winch cable hook is fully seated when the load is attached.

- Never operate your winch with a damaged hook or latch. Always replace damaged parts before using the winch.

Yes

No

5. Never remove the hook strap from the hook.
6. Release the winch clutch and pull out the winch cable.
7. Pulling out as much cable as possible maximizes the winch's pulling capacity. Always be sure that at least five (5) full turns of winch cable are wrapped around the winch drum at all times. The friction provided by this wrapped cable allows the drum to pull on the winch cable and move the load.

8. Read and adhere to the following information for winch damping to ensure safe winch use.
   a. In order to absorb energy that could be released by a winch cable failure, always place a “damper” on the winch cable. A damper can be heavy jacket, tarp, or other soft, dense object. A damper can absorb much of the energy released if a winch cable breaks when winching. Even a tree limb can help as a damper if no other items are available to you.
   b. Lay the damper on top of the mid-point of the winch cable length that is spooled out.
   c. On a long pull, it may be necessary to stop winching so that the damper can be repositioned to the new mid-point of the winch cable. Always release the tension on the winch cable before repositioning the damper.
   d. Avoid being directly in line with the winch cable whenever possible. Also, never permit others to stand near or in line with the winch cable during winch operation.
9. Never hook the winch cable back onto itself. This will damage the winch cable and may result in winch cable failure.
10. Never use straps, chains or other rigging items that are damaged or worn.

11. The ONLY time a winch-equipped vehicle should be moving when using the winch is when that vehicle itself is stuck. The winch equipped vehicle should NEVER be in motion to “shock” load the winch cable in an attempt to move a second stuck vehicle. See the Shock Loading section on page 104. For your safety, always follow these guidelines when winching a vehicle free:
    a. Release the winch clutch and spool out the necessary length of winch cable.
    b. Align the winch cable as close as possible to the winching vehicle’s centerline.
    c. Attach the winch cable hook to the anchor point or the stuck vehicle’s frame following instructions in this manual.
    d. Re-engage the clutch on the winch.
    e. Slowly winch in the slack in the winch cable.
    f. Select the proper vehicle gear to propel the stuck vehicle in the direction of winching.
    g. Shift to the lowest gear available on the stuck vehicle.
    h. Slowly and carefully apply vehicle throttle and winch together to free the vehicle.
    i. Stop winching as soon as the stuck vehicle is able to propel itself without the help of the winch.
    j. Detach the winch cable hook.
    k. Rewind the winch cable evenly back onto the winch drum following the instructions in this manual.
12. Never attempt to winch another stuck vehicle by attaching the winch cable to a suspension component, brush guard, bumper or cargo rack. Vehicle damage may result. Instead, attach the winch to a strong portion of the vehicle frame or hitch.
13. Extensive winching will run down the battery on the winching vehicle. Let the winching vehicle’s engine run while operating the winch to prevent the battery from running low if winching for long periods.
14. The winch motor may become hot during winch use. If you winch for more than 45 seconds, or if the winch stalls during operation, stop winching and permit the winch to cool down for 10 minutes before using it again.

15. After winching is complete, especially if winching at an angle, it may be necessary to re-distribute the winch cable across the winch drum. You will need an assistant to perform this task.
    a. Release the clutch on the winch.
    b. Feed out the winch cable that is unevenly bunched up in one area.
    c. Re-engage the winch clutch.
    d. Have an assistant pull the winch cable tightly with about 100 lbs. (45 kg) of tension using the hook strap.
    e. Slowly winch the cable in while your assistant moves the end of the winch cable back and forth horizontally to evenly distribute the winch cable on the drum.
    f. Doing this reduces the chances of the winch cable “wedging” itself between lower layers of winch cable.

WINCH CABLE CARE

For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.

⚠ WARNING

Use of worn or damaged cable could lead to sudden failure and SEVERE INJURY.

1. Always inspect your winch before each use. Inspect for worn or loose parts including mounting hardware. Never use the winch if any part needs repair or replacement.
2. Always inspect your winch cable before each use. Inspect for worn or kinked winch cable.

   A kinked winch cable made of wire rope is shown at right. Even after being "straightened out," this cable has already been permanently and severely damaged. Promptly discontinue use of a winch cable in this condition.

   A kinked winch cable made of wire rope that has been "straightened out" is shown at right. Even though it may look usable, the cable has been permanently and severely damaged. It can no longer transmit the load that it could prior to kinking. Promptly discontinue use of a winch cable in this condition.

   A winch cable made of synthetic rope should be inspected for signs of fraying. Replace the cable if fraying is observed (shown at right). Promptly discontinue use of a winch cable in this condition.

   Also replace the winch cable if there are fused or melted fibers. Such an area of the synthetic rope will be stiff and appear smooth or glazed. Promptly discontinue use of a winch cable in this condition.

SHOCK LOADING

⚠ WARNING

Your winch cable is very strong but it is NOT designed for dynamic, or “shock” loading. Shock loading may tension a winch cable beyond its strength and cause the cable to break. The end of a broken winch cable under such high loading can cause SEVERE INJURY or DEATH to you and other bystanders.

Winch cables are designed to NOT absorb energy. This is true of both wire-rope and synthetic-rope winch cables.

1. Never attempt to “jerk” a load with the winch. For example, never take up slack in the winch cable by moving the winching vehicle in an attempt to move an object. This is a dangerous practice. It generates high winch cable loads that may exceed the strength of the cable. Even a slowly moving vehicle can create large shock loads in a winch cable.

⚠ WARNING

SEVERE INJURY or DEATH can result from a broken winch cable.

2. Never quickly turn the winch ON and OFF repeatedly (“jogging”). This puts extra load on the winch, winch cable, and generates excessive heat from the motor. This is a form of shock loading.
3. Never tow a vehicle or other object with your winch. Towing an object with a winch produces shock loading of the cable even when towing at slow speeds. Towing from a winch also positions the towing force high on the vehicle. This can cause instability of the vehicle and possibly lead to an accident.
4. Never use recovery straps with your winch. Recovery straps are designed to stretch and can store energy. This stored energy in the recovery strap is released if a winch cable fails making the event even more hazardous. Similarly, never use elastic “bungie” cords for winching.
5. Never use the winch to tie down a vehicle to a trailer or other transportation vehicle. This type of use also causes shock loading that can cause damage to the winch, winch cable, or vehicles used.

Your winch cable is designed and tested to withstand the loads produced by the winch motor when operated from a stationary vehicle. Always remember that the winch and winch cable are NOT designed for shock loading.

WINCH MAINTENANCE AND SERVICE SAFETY

⚠ WARNING

Improper or lack of winch maintenance and service could lead to SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

1. Always inspect your winch before each use. Inspect for worn or kinked winch cable. Also inspect for worn or loose parts including mounting hardware.
2. Permit your winch motor to cool down prior to servicing your winch.
3. Never work on your winch without first disconnecting the battery connections to prevent accidental activation of the winch.
4. For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.
5. Some winch models use wire rope as the winch cable. Other winches use a specially designed synthetic rope as the winch cable.
6. Never replace a synthetic-rope winch cable with a consumer-grade polymer rope such as can be purchased in a hardware store. Although they may look similar, they are NOT alike. A polymer rope not designed for winch use will stretch and store excessive energy when winching.

⚠ WARNING

Failure of a stretched rope under winching conditions will release all of the stored energy. This will increase the chances of SEVERE INJURY or DEATH.

EMISSION CONTROL SYSTEMS

NOISE EMISSION CONTROL SYSTEM

Do not modify the engine, intake or exhaust components, as doing so may affect compliance with governmental noise level requirements.

SPARK ARRESTER

Your POLARIS vehicle has a spark arrester that was designed for on-road and off-road operation. It is required that this spark arrester remain installed and functional when the vehicle is operated.

EXHAUST EMISSION CONTROL SYSTEM

Exhaust emissions are controlled by engine design. An electronic fuel injection (EFI) system controls fuel delivery. The engine and EFI components are set at the factory for optimal performance and are not adjustable.

ELECTROMAGNETIC INTERFERENCE

This vehicle complies with the EMC requirements of European directives 97/24/EC and 2004/108/EC.

Non-ionizing Radiation: This vehicle emits some electromagnetic energy. People with active or non-active implantable medical devices (such as heart monitoring or controlling devices) should review the limitations of their device and the applicable electromagnetic standards and directives that apply to this vehicle.

MAINTENANCE

PERIODIC MAINTENANCE CHART

Careful periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment and lubrication of important components are explained in the periodic maintenance chart.

Inspect, clean, lubricate, adjust and replace parts as necessary. When inspection reveals the need for replacement parts, use genuine POLARIS parts available from your authorized dealer.

Record maintenance and service in the Maintenance Log section at the end of the manual.

Service and adjustments are important for proper vehicle operation. If you're not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Maintenance intervals in the following chart are based upon average riding conditions and an average vehicle speed of approximately 16 kilometers per hour (10 mph). Vehicles subjected to severe use must be inspected and serviced more frequently.

SEVERE USE DEFINITION

- Frequent immersion in mud, water or sand
- Frequent or prolonged operation in dusty environments
- Short trip cold weather operation
- Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- Extended idle

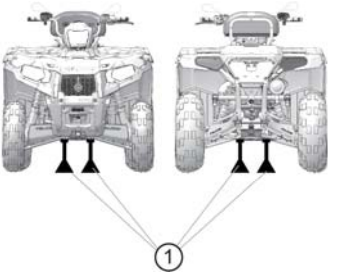
Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue use and determine the cause. Your dealer can assist.

ELEVATING THE VEHICLE FOR SERVICE

Some service procedures require elevation of the vehicle. Always position the vehicle on a firm, level surface before elevating. Do not position a jack or jack stand under any components other than the frame.

Use an appropriate lift or floor jack. This vehicle is not equipped with dedicated jacking points. Place the floor jack at the front (or rear) of the vehicle, directly under the center of the unit. Make sure the floor jack makes contact only with the *frame* of the vehicle while lifting ①.

Do not allow the vehicle to remain elevated on a floor jack. After elevating, place jack stands under the *frame* on each side of the floor jack, then lower the floor jack.



MAINTENANCE CHART KEY

SYMBOL	DESCRIPTION
XU	Perform these procedures more often for vehicles subjected to severe use.
D	Have an authorized Polaris dealer or other qualified person perform these services.

⚠ WARNING

Improperly performing the procedures marked with a **D** could result in component failure and lead to serious injury or death. Have an authorized POLARIS dealer or other qualified person perform these services.

Perform all services at whichever maintenance interval is reached first. Record maintenance and service in the Maintenance Log.

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HRS	CALENDAR	KM	
	Steering		Pre-Ride		Inspect and make adjustments as needed. See Pre-Ride Checklist section for details.
	Front suspension				
	Rear suspension				
	Tires				
	Brake fluid level				
	Brake lever				
	Foot brake				
	Brake system				
	Passenger seat lock-out (if equipped)				
	Wheels/fasteners				
	Frame fasteners				
XU	Engine oil level				
	Winch				See the Winch Guide for details.
XU	Air filter, pre-filter		Daily		Inspect; clean often; replace as needed

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HRS	CALENDAR	KM	
XU	Air box sediment tube		Daily		Drain deposits when visible
	Coolant		Daily		Check level
	Power steering unit (if equipped)		Daily		Inspect daily; clean often
	Headlight/taillight/ work light		Daily		Check operation; apply dielectric grease if replacing lamps
XU	Air filter,main element		Weekly		Inspect; replace as needed
XU D	Brake pad wear	10	Monthly	160	Inspect periodically
	Battery	20	Monthly	320	Check terminals; clean; test
	Fuel System	20	Monthly		Inspect; cycle key to pressurize fuel pump; check lines and fittings for leaks and abrasion
XU	Engine breather filter (if equipped)	25	Monthly	400	Inspect; clean if needed
XU	Engine oil change (break-in)	25	1 M	400	Perform a break-in oil change at one month
XU	Demand drive fluid	25	1 M	400	Break-in oil level check; change fluid every 25 hours if ADC is subjected to extreme use. See the Demand Drive section for details.
XU	Rear gearcase oil	25	1 M	400	Break-in oil level check
XU	Transmission oil	25	1 M	400	Break-in oil level check
XU	General lubrication	50	3 M	800	Lubricate all fittings, pivots, cables, etc.
	Shift linkage	50	6 M	800	Inspect, lubricate, adjust
D	Steering	50	6 M	800	Lubricate
XU	Front suspension	50	6 M	800	Lubricate
XU	Rear suspension	50	6 M	800	Lubricate

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HRS	CALENDAR	KM	
	Throttle body intake duct	50	6 M	800	Inspect duct for proper sealing/air leaks
	Drive belt	50	6 M	800	Inspect; adjust; replace as needed
	Cooling system	50	6 M	800	Inspect coolant strength seasonally; pressure test system yearly
XU	Engine oil change	100	6 M	1600	Change the oil and filter
XU	Oil lines and fasteners	100	6 M	1600	Inspect for leaks and loose fittings
XU	Demand drive fluid	100	12 M	1600	Change fluid; change fluid every 25 hours if ADC is subjected to extreme use. See the Demand Drive section for details.
XU	Rear gearcase oil	100	12 M	1600	Change fluid
XU	Transmission oil	100	12 M	1600	Change fluid
D	Fuel system	100	12 M	1600	Cycle key to pressurize fuel pump; check for leaks at fill cap, fuel lines/rail and fuel pump; replace lines every two years
XU	Radiator	100	12 M	1600	Inspect; clean external surfaces
XU	Cooling hoses	100	12 M	1600	Inspect for leaks
XU	Engine mounts	100	12 M	1600	Inspect
	Exhaust muffler/ pipe	100	12 M	1600	Inspect
D	Spark plug	100	12 M	1600	Inspect; replace as needed
XU	Wiring	100	12 M	1600	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc.
D	Clutches (drive and driven)	100	12 M	1600	Inspect; clean; replace worn parts

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HRS	CALENDAR	KM	
D	Front wheel bearings	100	12 M	1600	Inspect; replace as needed
	Brake systems and hydraulic hoses	100	12 M	1600	Inspect for leaks, wear or damage
D	Brake fluid	200	24 M	3200	Change every two years
	Spark arrester	300	36 M	4800	Clean out
D	Valve clearance	500		8000	Inspect; adjust
XU	Coolant		60 M		Replace coolant
D	Toe adjustment				Inspect periodically; adjust when parts are replaced
	Headlight aim				Adjust as needed

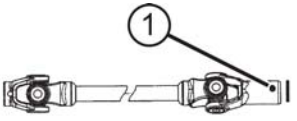
LUBRICATION GUIDE

Check and lubricate all components at the intervals outlined in the Periodic Maintenance Chart. Items not listed in the chart should be lubricated at the General Lubrication interval.

The a-arms and upper control arms are lubricated at the factory, and no additional lubrication will be needed. However, if these components are subjected to severe use, grease zerks have been provided for additional lubrication at the user's discretion.

ITEM	RECOMMENDED LUBRICANT	CAPACITY AT FLUID CHANGE	INSPECTION PROCEDURE
Engine Oil	PS-4 5W-50 4-Cycle Oil	1.9 l (2 qt.)	Maintain level in safe range on dipstick. See page 116.
Brake Fluid	DOT 4 Brake Fluid	—	Maintain level between fill lines. See page 128.
Transmission Oil	AGL Gearcase Lubricant & Transmission Fluid	1000 ml (34 oz.)	Maintain level at bottom of fill hole threads. See page 120.
Demand Drive Fluid (Front Gearcase)	Demand Drive Fluid	275-300 ml (9-10 oz.)	Maintain level at bottom of fill hole threads. See page 122.
Rear Gearcase Oil	ATV Angle Drive Fluid (or GL5 80-90 weight gear lube)	150 ml (5 oz.)	See page 124
Front Prop Shaft Yoke	U-Joint Grease	—	Grease fittings (3 pumps maximum) every 800 km (500 miles), before long periods of storage, or after pressure washing or submerging.

① Front Prop Shaft Yoke



ENGINE OIL

Always check and change the oil at the intervals outlined in the Periodic Maintenance Chart. Always use the recommended engine oil. Always change the oil filter whenever changing oil.

⚠ WARNING

Vehicle operation with insufficient, deteriorated, or contaminated engine oil will cause accelerated wear and may result in engine seizure, accident and injury. Always perform the maintenance procedures as outlined in the Periodic Maintenance Chart.

OIL RECOMMENDATIONS

Always change the oil filter whenever changing oil.

POLARIS recommends the use of POLARIS PS-4 Full Synthetic 5W-50 4-cycle oil or a similar oil for this engine. Oil may need to be changed more frequently if POLARIS oil is not used. Always use 5W-50 oil. Follow the manufacturer's recommendations for ambient temperature operation.

See the Lubrication Guide section for fluid recommendations, capacities and plug torques.

NOTICE

Mixing brands or using a non-recommended oil may cause serious engine damage. Always use the recommended oil. Never substitute or mix oil brands.

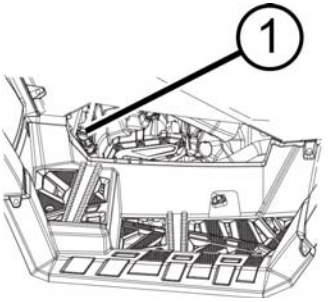
OIL SPECIFICATIONS

LUBRICANT	CAPACITY	DRAIN PLUG TORQUE
PS-4 5W-50 4-Cycle Oil	1.9 l (2 qt.)	19-23 Nm (14-17 ft-lbs)

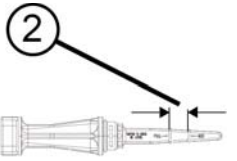
OIL LEVEL

Access the oil dipstick ① under the oil check flap and fill tube from the right side of the ATV.

A rising oil level between checks in cool weather driving can indicate contaminants such as gas or moisture collecting in the crankcase. If the oil level is over the full/safe mark, change the oil immediately.



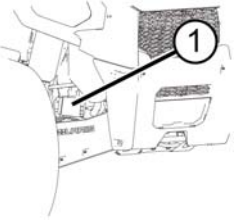
1. Position the vehicle on a level surface. Place the transmission in PARK.
2. Remove the dipstick. Wipe it dry with a clean cloth.
3. Reinstall and tighten the dipstick.
4. Remove the dipstick and check the oil level.
5. Add the recommended fluid as needed. Maintain the oil level within the safe range ②. Do not overfill.



6. Reinstall and tighten the dipstick.

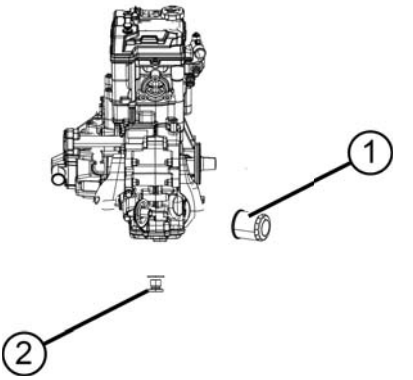
OIL AND FILTER CHANGE

Always change the oil and filter at the intervals outlined in the Periodic Maintenance Chart. Always change the oil filter ① whenever changing oil.



1. Position the vehicle on a level surface.
2. Start the engine. Allow it to warm up at idle for two to three minutes.

3. Stop the engine.
4. Clean the area around the drain plug ②.



5. Place a drain pan under the crank case.
6. Remove the drain plug. Allow the oil to drain completely.

⚠ WARNING

Hot oil can cause burns to skin. Do not allow hot oil to contact skin.

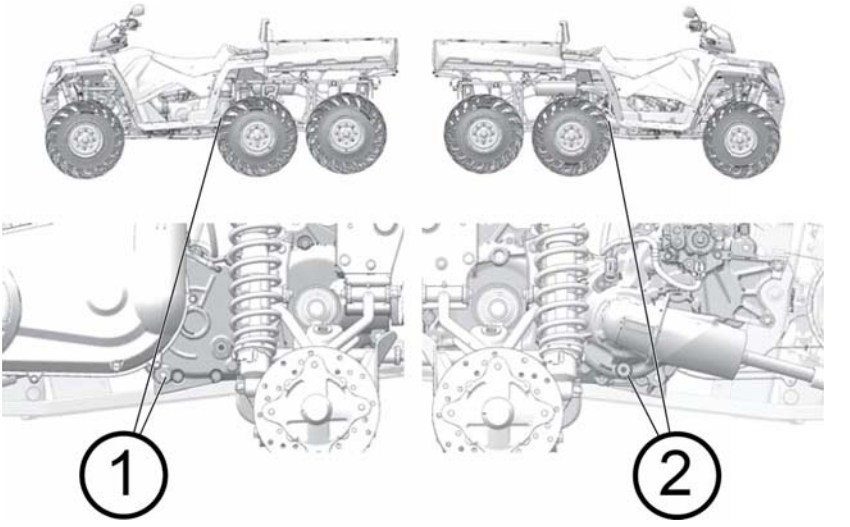
7. Install a new sealing washer on the drain plug. The sealing surfaces on drain plug and crankcase should be clean and free of burrs, nicks or scratches.
8. Reinstall the drain plug. Torque to 19-24 Nm (14-18 ft-lbs)
9. Place shop towels beneath the oil filter. Using an oil filter wrench (available from your dealer), turn the filter counter-clockwise to remove it.
10. Using a clean, dry cloth, clean the filter sealing surface on the crankcase.
11. Lubricate the o-ring on the new filter with a film of fresh engine oil. Check to make sure the o-ring is in good condition.
12. Install a new filter and rotate it clockwise by hand until the filter gasket contacts the sealing surface, then turn it an additional 3/4 turn.
13. Remove the dipstick.
14. Add 1.9 l (2 qt.) of recommended oil.
15. Place the transmission in PARK.
16. Lock the parking brake.
17. Start the engine. Allow it to idle for one to two minutes.
18. Stop the engine.
19. Check for leaks.

20. Check the oil level. Add oil as needed to bring the level to the upper mark on the dipstick.
21. Dispose of used filter and oil properly.

TRANSMISSION OIL

Always check and change the transmission oil at the intervals outlined in the Periodic Maintenance Chart. Maintain the oil level at the bottom of the fill plug ① hole threads. See the POLARIS products section for the part numbers.

The fill plug is located on the left side of the ATV, under the rear fender, behind the wheel. The drain plug ② is located on the right side of the gearcase, on the right side of the ATV, behind the wheel well.

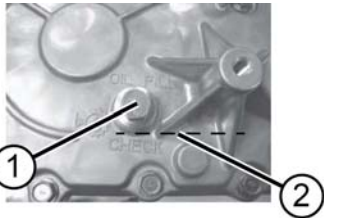


TRANSMISSION OIL RECOMMENDATIONS

LUBRICANT	CAPACITY	FILL PLUG TORQUE	DRAIN PLUG TORQUE
AGL Gearcase Lubricant & Transmission Fluid	1000 ml (34 oz.)	27-34 Nm (20-25 ft. lbs.)	27-34 Nm (20-25 ft. lbs.)

TRANSMISSION OIL CHECK

1. Position the vehicle on a level surface.
2. Remove the fill plug ①. Check the oil level.
3. Add the recommended fluid as needed to bring the level to the bottom of the fill hole threads ②.
4. Reinstall the fill plug. Torque to specification.



TRANSMISSION OIL CHANGE

1. Remove the fill plug.
2. Place a drain pan under the gearcase. Remove the drain plug. Allow the oil to drain completely.
3. Clean and reinstall the drain plug. Torque to specification.
4. Add the proper amount of the recommended oil.
5. Reinstall the fill plug. Torque to specification.
6. Check for leaks.
7. Dispose of used oil properly.

FRONT GEARCASE (DEMAND DRIVE) FLUID

Always check and change the demand drive fluid at the intervals outlined in the Periodic Maintenance Chart. Maintain the fluid level at the bottom of the fill hole threads. See the POLARIS Products section for part numbers.

Change the front gearcase fluid every 25 hours if the 4WDC unit is exposed to extreme use. Extreme use includes any of the following:

- operation in 4WDC mode for prolonged periods
- constant 4WDC operation on hilly or mountainous terrain
- 4WDC is the primary mode of all-wheel-drive operation

TIP
If the front gearcase is makes excessive noise during 4WDC operation, change the demand drive fluid. If the noise continues, please see your POLARIS dealer for service.

FLUID RECOMMENDATIONS

GEARCASE	LUBRICANT	CAPACITY	FILL PLUG TORQUE	DRAIN PLUG TORQUE
Front Gearcase	Demand Drive Fluid	275-300 ml (9-10 oz.)	11-14 Nm (8-10 ft-lbs)	15 Nm (11 ft-lbs)

Use the recommended fluid. Use of other fluids may result in improper operation of components. Maintain the fluid level at the bottom of the fill hole threads.

The fill plug is located on the right side of the demand drive unit. The drain plug is located on the bottom right side of the unit.

① Fill Plug
② Drain Plug
③ Fill Level

FLUID CHECK

1. Position the vehicle on a level surface. Remove the fill plug. Check the fluid level.
2. Add the recommended fluid as needed to bring the level to the bottom of the fill hole threads.
3. Reinstall the fill plug. Torque to specification.

FLUID CHANGE

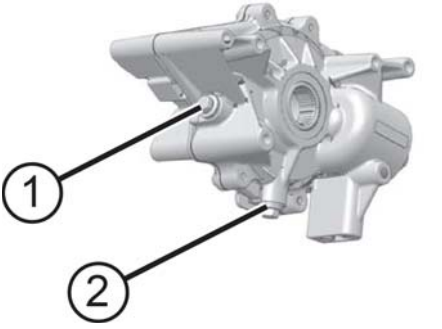
1. Position the vehicle on a level surface. Remove the fill plug.
2. Place a drain pan under the demand drive unit. Remove the drain plug. Allow the fluid to drain completely.
3. Clean and reinstall the drain plug. Torque to specification.
4. Add the proper amount of the recommended fluid.
5. Reinstall the fill plug. Torque to specification.
6. Check for leaks. Dispose of used fluid properly.

REAR GEARCASE OIL

Always check and change the rear gearcase oil at the intervals outlined in the Periodic Maintenance Chart section.

Maintain the fluid level at the bottom of the fill hole threads. Do not overfill.

The fill plug ① is located on the rear of the gearcase. The drain plug ② is located on the bottom of the gearcase.



REAR GEARCASE FLUID RECOMMENDATIONS

GEARCASE	LUBRICANT	CAPACITY	FILL PLUG TORQUE	DRAIN PLUG TORQUE
Rear Gearcase	POLARIS ATV Angle Drive Fluid (or GL5 80-90 weight gear lube)	150 ml (5 oz.)	19 Nm (14 ft-lbs)	19 Nm (14 ft-lbs)

OIL CHECK

1. Position the vehicle on a level surface.
2. Remove the fill plug. Check the oil level.
3. Add the recommended oil as needed to bring the level to the bottom of the fill hole threads. *Do not overfill.*
4. Reinstall the fill plug. Torque to specification.

OIL CHANGE

1. Position the vehicle on a level surface.
2. Place a drain pan under the drain hole.
3. Remove the drain plug. Allow the oil to drain completely.
4. Clean and reinstall the drain plug with a new sealing washer. Torque to specification.
5. Remove the fill plug. Add the proper amount of the recommended oil. *Do not overfill*.
6. Reinstall the fill plug. Torque to specification.
7. Check for leaks.
8. Dispose of used oil properly.

COOLING SYSTEM

The engine coolant level is controlled, or maintained, by the recovery system. The recovery system components are the recovery bottle, the radiator filler neck, the radiator pressure cap and the connecting hose.

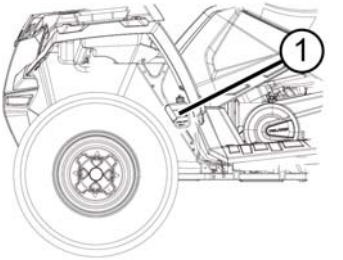
As coolant operating temperature increases, the expanding (heated) excess coolant is forced out of the engine, past the pressure cap, and into the recovery bottle. As engine coolant temperature decreases the contracting (cooled) coolant is drawn back up from the bottle, past the pressure cap, and into the radiator.

Some coolant level drop on new vehicles is normal as the system is purging itself of trapped air. Check the coolant level and maintain as recommended by adding coolant to the recovery bottle.

POLARIS recommends the use of POLARIS Antifreeze 50/50 Premix. This antifreeze is already premixed and ready to use. Do not dilute with water. See the Polaris Products section for the part numbers.

RECOVERY BOTTLE COOLANT

The recovery bottle ① is located on the left side of the vehicle.



1. Remove the left side panel. See the Side Panel Removal section.
2. Maintain the coolant level between the minimum and maximum marks on the bottle (when the fluid is cool).
3. Add coolant as needed.

RADIATOR COOLANT

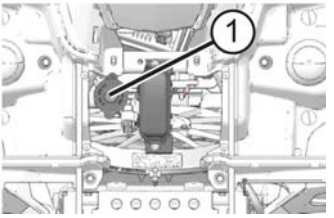
To ensure that the coolant maintains its ability to protect the engine, we recommend that the system be completely drained every five (5) years and fresh Antifreeze 50/50 Premix added.

Any time the cooling system has been drained for maintenance or repair, replace the coolant with fresh Antifreeze 50/50 Premix. If the recovery bottle has run dry, check the level in the radiator. Add coolant as needed.

CAUTION

Escaping steam can cause burns. Never remove the pressure cap while the engine is warm or hot. Always allow the engine to cool before removing the pressure cap.

1. Open the front box cover.
2. Remove the access panel screws. Squeeze the outer edges of the panel inward to remove the panel.
3. Remove the pressure cap ①.



4. Using a funnel, slowly add coolant through the radiator filler neck.
5. Reinstall the pressure cap. Use of a non-standard pressure cap will not allow the recovery system to function properly. Contact your dealer for the correct replacement part.
6. Reinstall the access panel and secure the front box cover.

BRAKES

BRAKE FLUID

Check brake fluid levels for both brake systems before each ride. Always maintain brake fluid at the recommended level. Do not overfill.

The brakes should feel firm when they're applied. Spongy or weak brakes may indicate a fluid leak or low fluid level. A low fluid level may also mean that brake pads are worn and need to be replaced. Do not operate the vehicle with spongy or weak brakes. See your dealer for service.

CAUTION

Operating the vehicle with a spongy brake can result in loss of braking, which could cause an accident. Never operate the vehicle with spongy-feeling brakes.

If the fluid level is low add DOT 4 brake fluid only. See the Polaris Products section for part numbers.

⚠ WARNING

An over-full master cylinder may cause brake drag or brake lock-up, which could result in serious injury or death. Maintain brake fluid at the recommended level. Do not overfill.

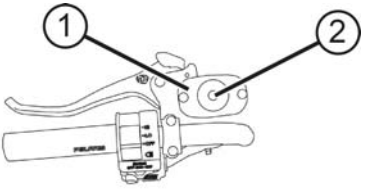
Under normal operation, the diaphragm extends into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is likely and the diaphragm should be replaced. To ensure proper diaphragm operation, always fill the reservoir as needed whenever the cover is loosened or removed. Do not overfill.

⚠ WARNING

Never store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. The moisture causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of accident or severe injury. After opening a bottle of brake fluid, always discard any unused portion.

HAND BRAKE

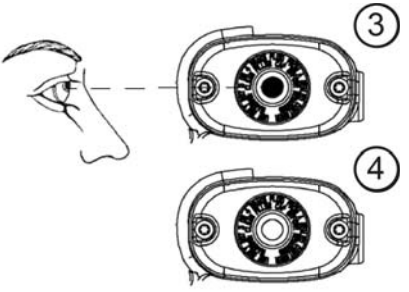
The master cylinder ① is located on the left handlebar. Maintain the fluid level 6 mm below the top edge of the master cylinder. Do not overfill.



1. Position the vehicle on a level surface. Make sure the handlebars are straight.
2. View the fluid level through the indicator window (eye) ② on the top of the master cylinder.

TIP

The eye will appear dark when the fluid level is full ③. When fluid is low ④, the eye will be clear.

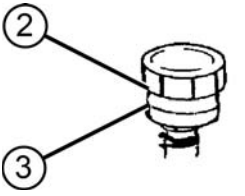


3. If the fluid level is low, remove the cover screws and add fluid to the fill line. *Do not overfill.*
4. Reinstall the cover. Torque screws to 0.8 Nm (7 in-lbs).

FOOT BRAKE

Check the brake fluid level frequently for the foot brake system. The foot brake fluid reservoir ① is located under the seat.

1. Position the vehicle on a level surface.
2. Remove the seat.
3. View the fluid level in the reservoir.
4. Remove the cap and add the recommended fluid as needed.
5. Maintain the fluid level between the minimum ③ and maximum ② marks. Do not overfill.



6. Reinstall the reservoir cap.
7. Reinstall the seat.

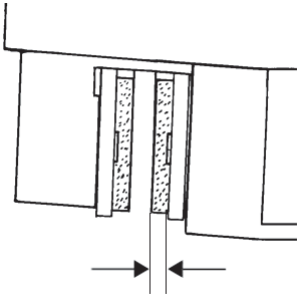
BRAKE INSPECTION

The front and rear brakes are hydraulic disc brakes, activated by applying the foot brake. The handlebar brake is also hydraulic. Both brake systems are self-adjusting.

Perform the following checks to keep the brake systems in good operating condition. Check more often if brakes are used heavily under normal operation.

1. Always keep brake fluid at an adequate level.
2. Check the brake systems regularly for fluid leaks.
3. Check the brakes for excessive travel or spongy feel.

4. Check the friction pads for wear, damage, and looseness. Replace the pads when the friction material is worn to 0.762 mm.



5. Check the security and surface condition of the disc. Clean any grease using a recommended brake cleaner or alcohol. Do not use spray lubricants or other petroleum-based products. If you discover any damage (cracks, excessive corrosion, warping) see your dealer for service before operating.

TOE ALIGNMENT

NOTICE

Do not attempt to adjust alignment. All steering adjustments should be performed by an authorized service technician. Your authorized dealer can assist.

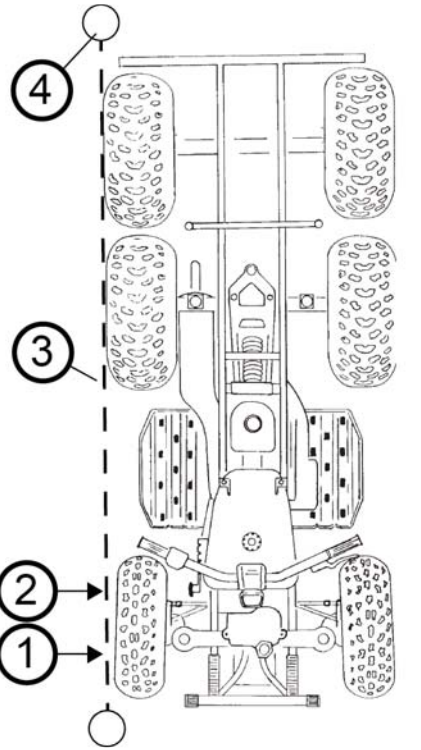
Use the following procedure to check the toe alignment of the vehicle. The recommended toe alignment is 3-6 mm toe out.

1. Position the vehicle on a level surface.
2. Place the handlebars in a straight-ahead position.
3. Tie a length of string ③ between two stands as shown in the illustration. Position the stand ④ so that the string is flush with the side of the rear tire.

TIP

If available, you may use a long straight-edge instead of string.

4. Measure the distance from the string to the rim at the front ① and rear ② of the front rim. The rear measurement should be 2-3 mm more than the front measurement on each side of the vehicle to obtain the recommended 3-6 mm toe out alignment.
5. Repeat the measurement procedure on the other side of the vehicle.
6. If you discover improper alignment, service is required. Your authorized dealer can assist.



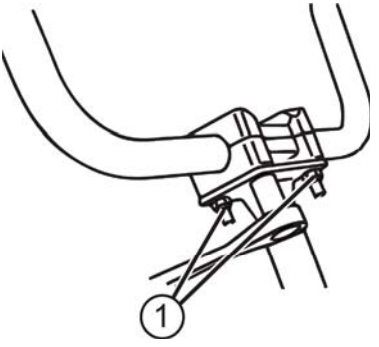
HANDLEBAR ADJUSTMENT

The handlebars can be adjusted for rider preference.

NOTICE

Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control. Follow the adjustment procedures exactly, or see your authorized dealer for service.

1. Remove the upper headlight pod.
2. Loosen the four handlebar bolts.
3. Adjust the handlebar to the desired height.
4. Be sure the handlebars do not contact the gas tank or any other part of the machine when turned fully to the left or right.
5. Torque the front two bolts ① to 14-17 Nm, then torque the rear two bolts. A gap of up to 3 mm will remain at the rear of the clamp blocks.

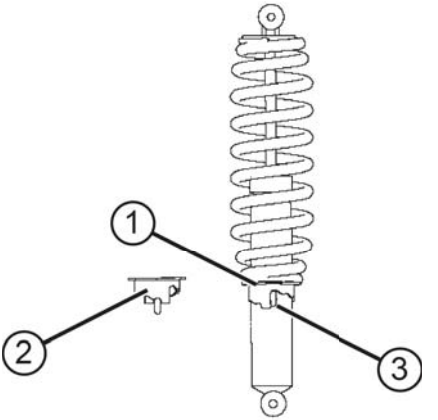


STEERING ASSEMBLY

The steering assembly of the ATV should be checked periodically for loose nuts and bolts. If loose nuts and bolts are found, see your authorized dealer or other qualified service facility before operating the vehicle.

REAR SPRING

The rear shock absorber spring is adjusted by rotating the cam either clockwise or counter-clockwise to increase or decrease spring tension.



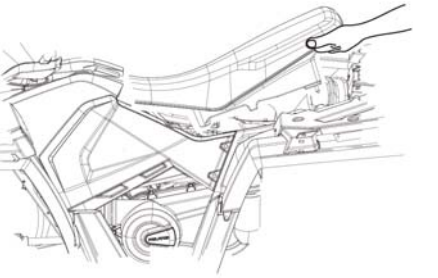
① Cam
② High Tension
③ Low Tension

POWER STEERING UNIT

If your model is equipped with power steering, frequently clean the areas around and on the power steering unit to allow proper cooling. Clean these areas thoroughly.

SEAT REMOVAL

1. Grasp one side of the seat near the rear edge.
2. Pull upward abruptly to disengage the under-seat fasteners.
3. Remove the seat.



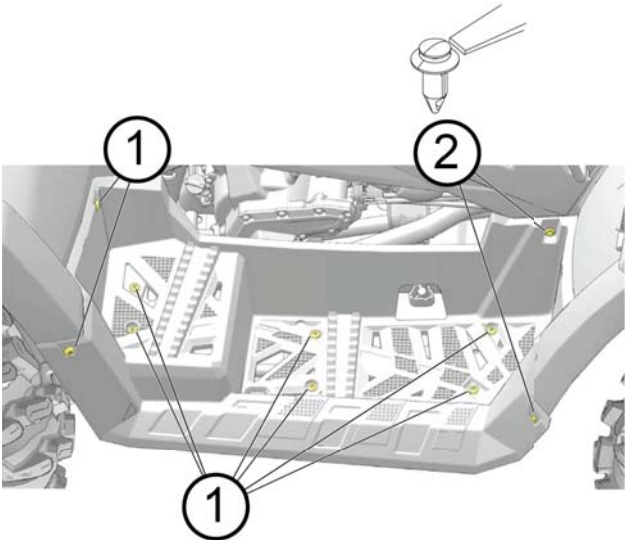
SIDE PANEL REMOVAL

1. Remove the seat.
2. Use a flat screwdriver to remove the plastic rivets securing the side panel.
3. Grasp the rear of the side panel near the rear cab. With a firm motion, pull the side panel outward to disengage the side panel from the grommets.
4. Pull the panel outward and rearward to remove it.

FOOTWELL REMOVAL

1. Remove the screws on the bottom of the footwell.
2. Remove the screws securing the footwell to the rear fender.
3. Use a flat screwdriver to remove the plastic rivets securing the footwell to the front fender.
4. Remove the footwell.

① Torx Head Screws
② Plastic Rivets



TIRES

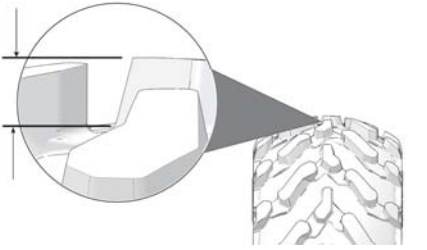
⚠ WARNING

Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tires will affect vehicle handling and could cause an accident resulting in serious injury or death. Always follow all tire maintenance procedures as outlined in this manual and on the labels on the vehicle. Always use original equipment size and type when replacing tires.

Refer to the specifications section for recommended tire type, size and pressure.

TIRE TREAD DEPTH

Always replace tires when tread depth is worn to 3 mm (1/8”) or less.



FRONT WHEEL HUB TIGHTENING

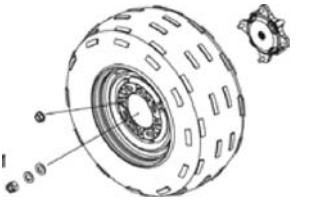
Front wheel bearing tightness and spindle nut retention are critical component operations. All service must be performed by your authorized dealer or other qualified service facility.

WHEEL NUT TORQUE SPECIFICATIONS

Check the wheel nut torques occasionally and when they've been loosened for service.

NUT TYPE	
Lug Nut (Aluminum Wheels) 	41 Nm (30 ft-lbs) PLUS 1/4 TURN or 70 degrees
2-Piece Flange Nut (Steel Wheels) 	37 Nm (27 ft-lbs)

WHEEL REMOVAL / INSTALLATION



1. Position the vehicle on a level surface.
2. Place the transmission in PARK.
3. Loosen the wheel nuts slightly.
4. Elevate the end of the vehicle. See the Elevating the Vehicle for Service section for details.
5. Remove the wheel nuts.
6. Remove the wheel.
7. Place the wheel on the hub.
8. install the wheel nuts finger tight.
9. Lower the vehicle to the ground.
10. Torque the wheel nuts to specification. See the Wheel Nut Torque Specifications section for torque values.

AIR FILTER

1. Remove the seat.
2. Release the air box cover clips and remove the air box cover.
3. Loosen the clamp and remove the filter.
4. Remove the fabric type pre-filter from the main filter. Wash the pre-filter in soapy water, then rinse and let dry.
5. Reinstall the pre-filter over the main filter. Install a new main filter if needed.
6. Reinstall the filter into the air box and tighten the clamp. Do not overtighten the clamp, as filter damage could occur.
7. Reinstall the air box cover and the seat.

① Pre-Filter
② Main Filter
③ Breather Valve
④ Breather Line

BREATHER VALVE/HOSE

The breather valve is on the hose that runs between the engine and air box.

1. Remove the left side panel.
2. Remove the hose clamps from the valve and pull the valve out of the hoses.
3. Inspect the valve for debris. Blow gently through the valve to check for clogging. Replace a damaged or clogged valve.
4. Check the hoses for cracks, deterioration, abrasion, or leaks. Replace as needed.
5. Reinstall the valve and hose clamps.

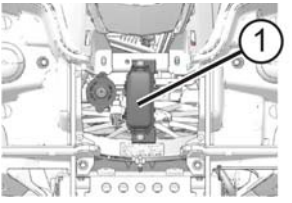
NOTICE

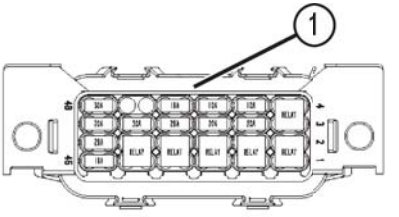
Operation of your vehicle without a breather valve can cause engine damage. Always reinstall the breather valve after removing it for service.

FUSE REPLACEMENT

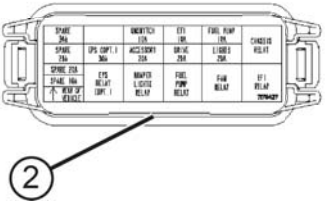
If the engine stops or will not start, or if you experience other electrical failures, a fuse may need replacement. Locate and correct any short circuits that may have caused the blown fuse, then replace the fuse. Spare fuses are provided in a compartment on the top of the access door.

1. Open the front box cover.
2. Remove the access panel. See page 105.
3. Remove fuse box cover.
4. Remove the suspect fuse from the fuse panel. If the fuse is blown, install a new fuse with the same amperage.
5. Secure the fuse box cover and access panel.
6. Secure the front box cover.





① Fuse Box
② Labels Inside Box Cover



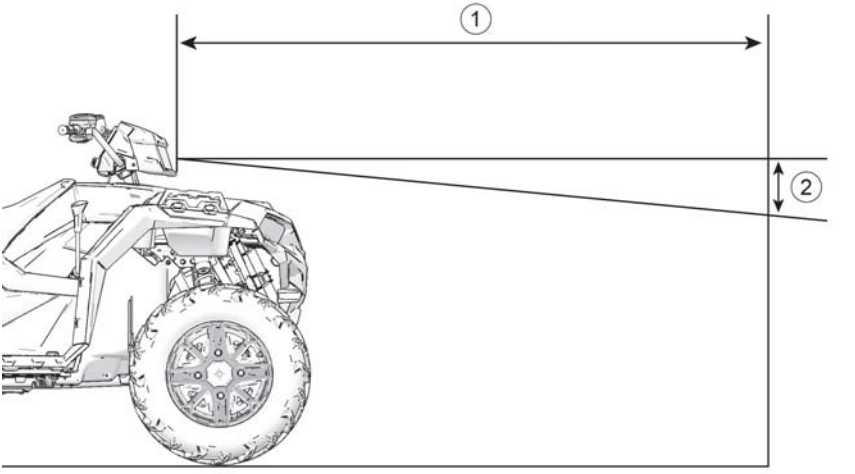
LIGHTS

CAUTION

Poor lighting can result in reduced visibility when driving. Headlight and taillight lenses become dirty during normal operation. Clean headlights frequently and replace burned out headlamps promptly.
Always make sure lights are adjusted properly for best visibility.

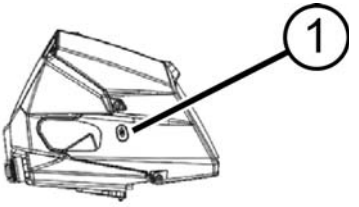
HIGH BEAM ADJUSTMENT

The headlight beam can be adjusted slightly upward or downward. Use the following procedure to make the adjustment.



1. Position the vehicle on a level surface with the headlight approximately 7.6 m from a wall ①.
2. Place the transmission in PARK.
3. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
4. Start the engine. Turn the headlight switch to high beam.
5. Observe the headlight aim on the wall. The most intense part of the headlight beam should be 5 cm below the mark on the wall②. Include rider weight on the seat when measuring.

6. If adjustment is needed, the adjustment screw ① is located on the right side of the headlight pod. To adjust the beam, loosen the screw. Adjust the headlamp to the desired position, then tighten the screw.



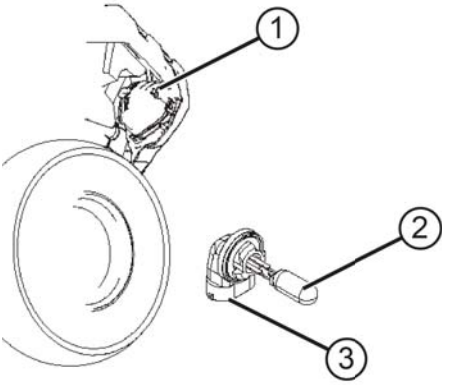
LOW BEAM ADJUSTMENT

The low beam can be adjusted slightly upward or downward.

1. Loosen the Phillips screw located at the rear of the headlamp.
2. Tilt the headlamp upward or downward.
3. Tighten the screw.

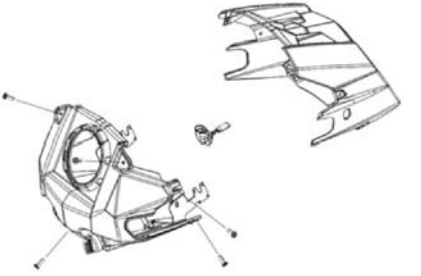
LOWER HEADLAMP REPLACEMENT

1. Turn the back of the headlight harness counter-clockwise and pull the harness assembly away from the headlight assembly.
2. Remove the headlamp and install the new headlamp.
3. Reinstall the harness assembly into the headlight assembly.
4. Turn the headlight harness clockwise to secure the headlamp.



① Phillips Screw
② Lamp
③ Harness

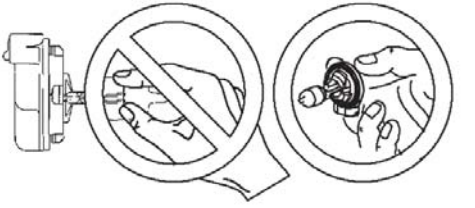
HEADLIGHT HOUSING REPLACEMENT



1. Remove the seven (7) headlight pod screws.
2. Pull the pod cover forward.
3. Unplug the headlamp from the wiring harness.
4. Use a small screwdriver to remove the o-rings from the headlight mounting tabs.
5. Pull the headlight housing up from the bracket for removal.
6. Reverse the steps to install the new housing and reassemble the pod.

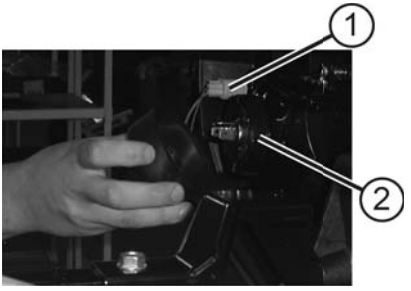
HEADLIGHT / POSITION LIGHT LAMP REPLACEMENT

When servicing a halogen lamp, do not touch the lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot that will shorten the life of the lamp. Hold the plastic part of the lamp.

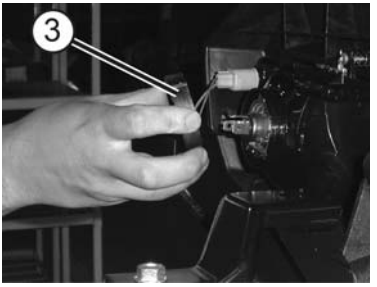


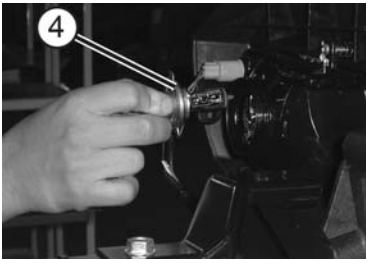
1. Place the transmission in PARK.
2. Open the front rack cover.
3. Remove the plug at the back of the headlight.
4. Pull the harness plug to disconnect it from the back of the headlight.

5. *Position light* ①: Rotate the socket to remove it. Go to step 6.



Headlamp ②: Reach under the bumper and remove the rubber cover from the back of the headlight. Turn the collar ③ counter-clockwise and carefully remove the collar and socket ④.





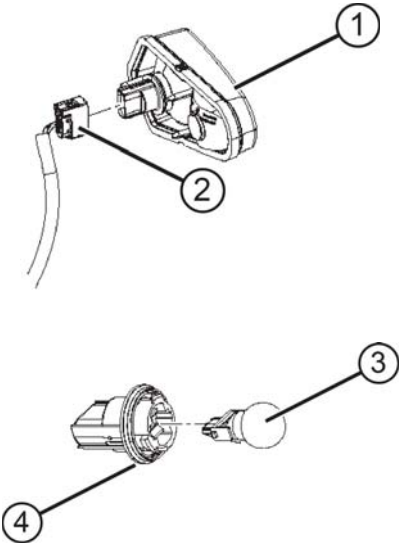
6. Remove the lamp. Apply dielectric grease to the socket and install a new lamp.
7. Reverse all steps to reassemble the headlight.

FRONT TURN SIGNAL LAMP REPLACEMENT

If a front turn signal light becomes inoperable, use a Phillips screwdriver to remove the lens cover screws. Remove the lens cover and replace the spent lamp with a new lamp. Always use a P21W (21 watt) lamp.

TAILLIGHT / BRAKELIGHT LAMP REPLACEMENT

1. Remove the harness connector from the back of the light assembly.
2. Turn the lamp counter-clockwise to remove it.
3. Apply dielectric grease to the socket and install the new lamp.
4. Reinstall the harness connector.
5. Test the light for proper operation.



① Taillight
② Harness Connector
③ Lamp
④ Socket

SPARK PLUGS

SPARK PLUG RECOMMENDATIONS

Refer to the Specifications section for the recommended spark plug type and gap for your vehicle.

NOTICE

Using non-recommended spark plugs can result in serious engine damage. Always use POLARIS-recommended spark plugs.

PLUG CONDITION	TORQUE SPECIFICATION
New Spark Plug	12 Nm (9 ft-lbs)
Previously Installed Spark Plug	12 Nm (9 ft-lbs)

SPARK PLUG INSPECTION

Spark plug condition is indicative of engine operation. Check the spark plug firing end condition after the engine has been warmed up and the vehicle has been driven at higher speeds. Immediately check the spark plugs for correct color.

CAUTION

A hot exhaust system and engine can cause burns. Wear protective gloves when removing a spark plug for inspection.

1. Rotate the spark plug cap 1/4 turn and pull it off the spark plug.
2. Rotate the spark plug counter-clockwise to remove it.
3. Reverse the procedure for spark plug installation. Torque to specification.

NORMAL SPARK PLUG

The normal insulator tip is gray, tan or light brown. There will be few combustion deposits. The electrodes are not burned or eroded. This indicates the proper type and heat range for the engine and the service.

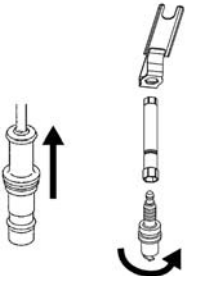
The tip should not be flaky and white. A white insulator tip indicates overheating, caused by use of an improper spark plug or incorrect fuel.

WET FOULED SPARK PLUG

The wet fouled insulator tip is black. A damp oil film covers the firing end. There may be a carbon layer over the entire nose. Generally, the electrodes are not worn. General causes of fouling are excessive oil, use of non-recommended oil or incorrect throttle body adjustments.

SPARK PLUG REMOVAL

1. Remove the left-side panel. See the Footwell Removal section for details.
2. Remove the spark plug cap.
3. Use the spark plug wrench to remove the spark plug. Turn the plug counter-clockwise to remove it.



4. Inspect the electrodes for wear and carbon buildup. Replace worn or fouled plugs. Verify that the gap is at specification before installation.
5. Reinstall the spark plug. Torque to specification.
6. Reinstall the spark plug cap.

VEHICLE IMMERSION

If your vehicle becomes immersed, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine. If it's impossible to take your ATV to a dealer before starting it, follow the steps outlined below.

1. Move the ATV to dry land or at the very least, to water below the footrests.
2. Check the air box. If water is present, dry the air box and replace the filter with a new filter.
3. Remove the spark plug.
4. Turn the engine over several times using the electric start.
5. Dry the spark plug. Reinstall the plug or install a new plug.
6. Attempt to start the engine. If necessary, repeat the drying procedure.
7. Take the ATV to your dealer for service as soon as possible, whether you succeed in starting it or not.
8. If water has been ingested into the PVT, follow the procedure for drying out the PVT in the PVT Drying section.

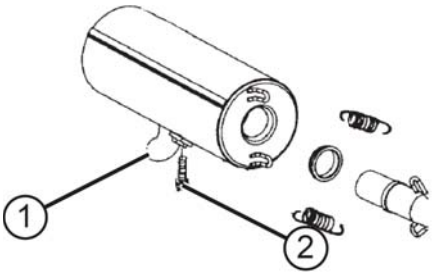
SPARK ARRESTER

⚠ WARNING

Failure to heed the following warnings while servicing the spark arrester could result in serious injury or death. Never run the engine in an enclosed area. Remove any combustible materials from the area. Wear eye protection and leather work gloves. Do not stand behind or in front of the vehicle while purging. Never go under the vehicle while it's inclined.

The exhaust system can get extremely hot. Do not perform service on the spark arrester while the system is hot. Allow components to cool sufficiently before proceeding.

Use the following procedure to periodically purge accumulated carbon from the exhaust pipe/muffler.



① Exhaust Outlet
② Clean-Out Plug

1. Remove the arrester clean-out plug from the bottom of the muffler.
2. Place the transmission in PARK.
3. Start the engine.
4. Quickly squeeze and release the throttle lever several times to purge carbon from the system.
5. If carbon comes out of the exhaust, cover or plug the exhaust outlet. Wear protective gloves.
6. Lightly tap on the exhaust pipe with a rubber mallet while repeating step 4.
7. If particles are still suspected to be in the muffler, elevate the rear of the vehicle 30 cm (1 foot) higher than the front. Block the wheels.
8. Repeat steps 4 to 6 until no more particles are expelled.
9. Stop the engine. Allow the arrester to cool.
10. Reinstall the arrester plug and remove the exhaust outlet cover or plug.

PVT SYSTEM

⚠ WARNING

Do not modify any component of the PVT system. Doing so may reduce its strength so that a failure may occur at a high speed. The PVT system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.

The PVT system rotates at high speeds, creating large amounts of force on clutch components. Extensive engineering and testing has been conducted to ensure the safety of this product. However, as the owner, you have the following responsibilities to make sure this system remains safe:

- Always follow all recommended maintenance procedures. Always look for and remove debris inside and around the clutch and vent system when replacing the belt.
- See your dealer as outlined in the owner's manual.
- This PVT system is intended for use on POLARIS products only. Do not install it in any other product.
- Always make sure the PVT housing is securely in place during operation.

WHEN TO USE LOW AND HIGH RANGE

CONDITION	RANGE TO USE
Operating at speeds less than 11 km/h (7 MPH)	Low
Towing heavy loads	Low
Operating in rough terrain (swamps, mountains, etc.)	Low
Operating at speeds greater than 11 km/h (7 MPH)	High

PVT DRYING

There may be some instances when water is accidently ingested into the PVT system. Use the following instructions to dry it out before operating.

1. Position the vehicle on a level surface.
2. Remove the drain plug. Allow the water to drain completely. Reinstall the drain plug.
3. Start the engine. Place the transmission in PARK.
4. Apply varying throttle for 10-15 seconds to expel the moisture and air-dry the belt and clutches. Do not hold the throttle wide open for more than 5 seconds.
5. Allow the engine RPM to settle to idle speed, then shift the transmission to low range.
6. Test for belt slippage. If the belt slips, repeat the process. Your vehicle requires service as soon as possible, which your authorized dealer can provide.

BATTERY

⚠ WARNING

Improperly connecting or disconnecting battery cables can result in an explosion and cause serious injury or death. When removing the battery, always disconnect the negative (black) cable first. When reinstalling the battery, always connect the negative (black) cable last.

⚠ WARNING

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing.

Antidote:

External: Flush with water.

Internal: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

Eyes: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.

Your ATV may have either a sealed battery, which requires little maintenance, or a conventional battery. A sealed battery can be identified by its flat covers on the top of the battery. A conventional battery has six filler caps on the top of the battery.

Always keep battery terminals and connections free of corrosion. If cleaning is necessary, remove corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean shop towels. Coat the terminals with dielectric grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into a conventional battery.

BATTERY INSTALLATION

Using a new battery that has not been fully charged can damage the battery and result in a shorter life. It can also hinder vehicle performance. Follow the battery charging instructions in the Battery Charging sections before installing the battery.

An optional extreme use battery may be available for your model. If the performance of the factory-installed battery is inadequate due to operation in extreme cold or due to extended use of multiple electrical accessories, please see your POLARIS dealer. Ask your dealer to provide any installation procedures that may differ for an extreme use battery.

⚠ WARNING

Battery gases could accumulate in an improperly installed vent tube and cause an explosion, resulting in serious injury or death. Always ensure that the vent tube is free of obstructions and is securely installed as recommended.

1. Ensure that the battery is fully charged.
2. Place the battery in the battery holder.
3. With conventional batteries, install the battery vent tube (sealed batteries do not have a vent tube). The vent tube must be free of obstructions and securely installed. Route the tube away from the frame and vehicle body to prevent contact with electrolyte.
4. On conventional batteries, coat the terminals with dielectric grease or petroleum jelly.
5. Connect and tighten the red (positive) cable first.
6. Connect and tighten the black (negative) cable last.
7. Install the battery cover (if equipped).
8. Secure the battery hold-down strap.
9. Verify that cables are properly routed. Cables should be safely tucked away at the front and rear of the battery.

BATTERY REMOVAL

1. Disconnect the battery hold-down strap.
2. Remove the battery cover (if equipped).
3. On conventional batteries, remove the battery vent tube.
4. Disconnect the black (negative) battery cable first.
5. Disconnect the red (positive) battery cable last.
6. Lift the battery out of the ATV. Be careful not to tip a conventional battery sideways, which could spill electrolyte.

NOTICE

If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the vehicle.

BATTERY STORAGE

Whenever the vehicle is not used for a period of three months or more, remove the battery from the vehicle, ensure that it's fully charged, and store it out of the sun in a cool, dry place. Check battery voltage each month during storage and recharge as needed to maintain a full charge.

TIP

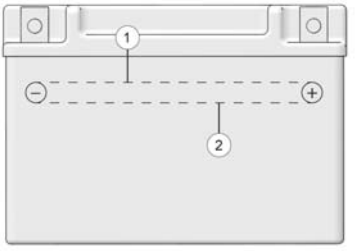
Power plug leads may need to be bent down so that the battery cover can be installed.

POLARIS recommends maintaining battery charge by using a POLARIS Battery Tender charger or by charging about once a month to make up for normal self-discharge. Battery Tender can be left connected during the storage period, and will automatically charge the battery if the voltage drops below a pre-determined point. See the POLARIS products section for details.

BATTERY FLUID (CONVENTIONAL BATTERY)

A poorly maintained battery will deteriorate rapidly. Check the battery fluid level often. Maintain the fluid level between the upper ① and lower level ② marks.

Add only distilled water. Tap water contains minerals that are harmful to a battery.



BATTERY CHARGING (CONVENTIONAL BATTERY)

1. Remove the battery from the vehicle to prevent damage from leaking or spilled electrolyte during charging.
2. Charge the battery with a charging output no larger than 1/10 of the battery's amp/hr rating. Charge as needed to raise the specific gravity to 1.270 or greater.
3. Reinstall the battery. Make sure the positive terminal is toward the front of the vehicle.

BATTERY CHARGING (SEALED BATTERY)

The following battery charging instructions apply only to the installation of a sealed battery. Read all instructions before proceeding with the installation of this battery.

The sealed battery is already filled with electrolyte and has been sealed and fully charged at the factory. Never pry the sealing strip off or add any other fluid to this battery.

The single most important thing about maintaining a sealed battery is to keep it fully charged. Since the battery is sealed and the sealing strip cannot be removed, you must use a voltmeter or multimeter to measure DC voltage.

⚠ WARNING

An overheated battery may explode, causing severe injury or death. Always watch charging times carefully. Stop charging if the battery becomes very warm to the touch. Allow it to cool before resuming charging.

For a refresh charge, follow all instructions carefully.

1. Check the battery voltage with a voltmeter or multimeter. A fully charged battery will register 12.8 V or higher.
2. If the voltage is less than 12.8 volts, recharge the battery at 1.2 amps or less until battery voltage is 12.8 or greater.

TIP

When using an automatic charger, refer to the charger manufacturer's instructions for recharging. When using a constant current charger, use the guidelines below for recharging.

Always verify battery condition before and 1-2 hours after the end of charging.

STATE OF CHARGE	VOLTAGE	ACTION	CHARGE TIME*
***(USING CONSTANT CURRENT CHARGER @ STANDARD AMPS SPECIFIED ON TOP OF BATTERY)**			
100%	12.8-13.0 volts	None, check at 3 mos. from date of manufacture	None required
75%-100%	12.5-12.8 volts	May need slight charge, if no charge given, check in 3 months	3-6 hours
50%-75%	12.0-12.5 volts	Needs charge	5-11 hours
25%-50%	11.5-12.0 volts	Needs charge	At least 13 hours, verify state of charge
0%-25%	11.5 volts or less	Needs charge with desulfating charger	At least 20 hours

CLEANING AND STORAGE

WASHING THE VEHICLE

Keeping your POLARIS vehicle clean will not only improve its appearance but it can also extend the life of various components.

NOTICE

High water pressure may damage components. POLARIS recommends washing the vehicle by hand or with a garden hose, using mild soap. Certain products, including insect repellents and chemicals, will damage plastic surfaces. Do not allow these types of products to contact the vehicle.

The best and safest way to clean your POLARIS vehicle is with a garden hose and a pail of mild soap and water.

1. Use a professional-type washing cloth, cleaning the upper body first and the lower parts last.
2. Rinse with clean water frequently.
3. Dry surfaces with a chamois to prevent water spots.

WASHING TIPS

- Avoid the use of harsh cleaners, which can scratch the finish.
- Do not use a power washer to clean the vehicle.
- Do not use medium to heavy duty compounds on the finish.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

If a high pressure water system is used for cleaning (not recommended), exercise extreme caution. The water may damage components and could remove paint and decals. Avoid directing the water stream at the following items:

- Wheel bearings
- Radiator
- Transmission seals
- Cab and body panels
- Electrical components
- Switches and controls
- Fuel system components
- Labels and decals

If an informational or graphic label becomes illegible or comes off, contact your POLARIS dealer to purchase a replacement. Replacement *safety* labels are provided by POLARIS at no charge.

Grease all zerk fittings immediately after washing. Allow the engine to run for a while to evaporate any water that may have entered the engine or exhaust system.

POLISHING THE VEHICLE

POLARIS recommends the use of common household aerosol furniture polish for polishing the finish on your POLARIS vehicle. Follow the instructions on the container.

POLISHING TIPS

- Avoid the use of automotive products, some of which can scratch the finish of your vehicle.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

CHROME WHEEL CARE (IF EQUIPPED)

Proper maintenance will protect chrome wheels from corrosion, preserve wheel life and ensure a "like new" appearance for many years. Chrome wheels exposed to road salt (or salt in the air in coastal areas) are more susceptible to corrosion if not properly cleaned. Clean chrome wheels more often if they're exposed to salt or other corrosive elements.

1. Wash chrome wheels frequently. Use a mild detergent. Never use abrasive cleaners on plated or painted surfaces.
2. Rinse well with clear water. Soap, detergents, salt, dirt, mud, and other elements can cause corrosion.
3. Polish the clean chrome wheels periodically. Use an automotive grade chrome polish.
4. Routinely and liberally apply a weather resistant wax to each polished chrome wheel. Choose a product suitable for chrome finishes. Read and follow the product labels and instructions.

REMOVING CORROSION

If light rust is found on the chrome finish, use steel wool (#0000-OTT grade) to remove it. Gently rub the affected areas with the steel wool until the corrosion has been removed. Clean and polish the wheel as outlined above.

STORAGE TIPS

NOTICE

Starting the engine during the storage period will disturb the protective film created by fogging and damage could occur. Never start the engine during the storage period.

CLEAN THE EXTERIOR

Make any necessary repairs and clean the vehicle as recommended. See the Washing the Vehicle section.

STABILIZE THE FUEL

1. Fill the fuel tank.
2. Add POLARIS Carbon Clean Fuel Treatment or POLARIS Fuel Stabilizer or equivalent fuel treatments or stabilizers. Follow the instructions on the container for the recommended amount. Carbon Clean removes water from fuel systems, stabilizes fuel and removes carbon deposits from pistons, rings, valves and exhaust systems.
3. Allow the engine to run for 15-20 minutes to allow the stabilizer to disperse through the entire fuel delivery system.

OIL AND FILTER

Change the oil and filter. See the Engine Oil section.

AIR FILTER / AIR BOX

1. Inspect and clean (or replace) the pre-cleaner and air filter. See the Air Filter section.
2. Clean the air box.

FLUID LEVELS

Inspect the fluid levels. Add or change fluids as recommended in the Periodic Maintenance Chart.

- Demand drive fluid (front gearcase)
- Rear gearcase fluid (if equipped)
- Transmission fluid
- Brake fluid (change every two years and any time the fluid looks dark or contaminated)
- Coolant (test strength/fill)

FOG THE ENGINE

1. Treat the fuel system with POLARIS Carbon Clean or other equivalent fuel treatment. Follow the instructions on the container. Start the engine. Allow it to idle for several minutes so the Carbon Clean reaches the injectors. Stop the engine.
2. Remove the spark plugs and add 2-3 tablespoons of engine oil. To access the plug holes, use a section of clear 1/4” hose and a small plastic squeeze bottle filled with the pre-measured amount of oil. *Do this carefully! If you miss the plug holes, oil will drain from the spark plug cavities into the hole at the front of the cylinder head, and appear to be an oil leak.*
3. Reinstall the spark plugs. Torque to specification.

4. Apply dielectric grease to the inside of each spark plug cap. *Do not reinstall the cap onto the plug at this step*.
5. Turn the engine over several times. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.
6. Reinstall the spark plug caps.
7. If POLARIS fuel system additive is not used, fuel tank, fuel lines, and injectors should be completely drained of gasoline.

INSPECT AND LUBRICATE

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart.

BATTERY MAINTENANCE

Remove the battery and recharge it as outlined in the Battery Charging section. Store the battery in a cool, dry place.

STORAGE AREA / COVERS

Set the tire pressure and safely support the vehicle with the tires slightly off the ground. Be sure the storage area is well ventilated. Cover the vehicle with a genuine POLARIS cover. Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

ACCESSORIES

Auxiliary power outlets provide 12-volt power for operating accessories. Accessory outlets are available for all models. POLARIS also has a wide range of additional accessories available for your ATV. Always install accessories that are approved for ATV use. Your dealer can assist.

POLARIS PRODUCTS
LUBRICANTS / MISCELLANEOUS

PART NUMBER	DESCRIPTION
Engine Lubricant	
2870791	Fogging Oil (Aerosol)
2876244	PS-4 Full Synthetic 5W-50 4-Cycle Oil (.95 L)
2876245	PS-4 Full Synthetic 5W-50 4-Cycle Oil (3.8 L)
2878920	PS-4 Extreme Duty Synthetic 10W-50 4-Cycle Oil (.95 L)
2878919	PS-4 Extreme Duty Synthetic 10W-50 4-Cycle Oil (3.8 L)
Gearcase / Transmission Lubricants	
2878068	AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (.95 L)
2878069	AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (3.8 L)
2877922	Demand Drive Plus Fluid (.95 L)
2877923	Demand Drive Plus Fluid (3.8 L)
2870465	Pump for 3.8 L Jug
Coolant	
2880514	Antifreeze 50/50 Premix (.95 L)
2880513	Antifreeze 50/50 Premix (3.8 L)
Grease / Specialized Lubricants	
2871312	Grease Gun Kit, Premium All Season
2871322	All Season Grease (89 ml cartridge)
2871423	All Season Grease (414 ml cartridge)
2871460	Premium Starter Grease
2871515	U-Joint Grease (89 ml cartridge)

PART NUMBER	DESCRIPTION
2871551	U-Joint Grease (414 ml cartridge)
2871329	Dielectric Grease (Nyogel™)
Additives / Miscellaneous	
2871326	Carbon Clean
2870652	Fuel Stabilizer
2872189	DOT 4 Brake Fluid
2871956	Loctite™ 565 Thread Sealant
2859044	POLARIS Battery Tender™ Charger

SPECIFICATIONS

SPORTSMAN 570 6X6	
Maximum Weight Capacity	499 kg (includes operator, cargo, accessories, tongue weight)
Dry Weight (+/- 7% based on configuration)	520 kg
Front Rack/Box Capacity	41 kg
Cargo Box Capacity	340 kg
Rear Hitch Tongue Capacity	75 kg *Cargo box capacity and tongue weight not to exceed 340 kg
Rear Hitch Towing Capacity	750 kg on level ground
Front Hitch Tongue Capacity	39 kg (Front rack capacity and tongue weight not to exceed 41 kg)
Front Hitch Towing Capacity	386 kg
Overall Length	2961 mm
Overall Width	1221 mm
Overall Height	1434 mm
Wheelbase	1422 mm (front/middle) 2161 mm (front/rear)
Ground Clearance	28 cm
Minimum Turning Radius	4966 mm unloaded
Fuel Capacity	25.5 L
Engine Oil Capacity	1.9 L
Coolant Capacity	2.5 L
Transmission Oil Capacity	1000 ml
Demand Drive (Front Gearcase) Fluid Capacity	275-300 ml
Rear Gearcase Oil Capacity	150 ml
Engine	Dual overhead cam, 4 valve 4 stroke single cylinder
Displacement	567 cc
Bore x Stroke	99 mm x 73.6 mm

SPORTSMAN 570 6X6	
Alternator Output	660 W @ 7000 RPM
Compression Ratio	10:1
Starting System	Electric
Fuel System	Electronic Fuel Injection
Ignition System	ECU
Spark Plug / Gap	NGK MR7F / 0.7-0.8 mm
Lubrication System	Wet Sump
Driving System Type	Automatic PVT (POLARIS Variable Transmission)
Front Suspension	MacPherson strut with 21 cm travel
Rear Suspension	Progressive rate with 24 cm travel
Transmission	H/L/N/R/P
Gear Reduction, Low	23.91:1
Gear Reduction, Reverse	21.74:1
Gear Reduction, High	10.57:1
Drive Ratio, Front	3.82:1
Tires/Pressure, Front	26x8R12 / 48.3 kPa
Tires/Pressure, Rear	26x11R12 / 68.9 kPa
Brake, Hand	Single-Control Hydraulic Disc
Brake, Foot	Foot-Activated Hydraulic Disc
Brake, Parking	Transmission park lock and hydraulic lock, all wheel
Winch	Front permanent installed winch with 1,125 kg capacity
Headlight	2 dual beam on bumper (55/60 watt) 1 single beam on headlight pod (50 watt) 2 single beam on bumper (50 watt)
Work Lights	50 watts
Parking Lights	5 watts

SPORTSMAN 570 6X6	
Taillights	8.26 watts
Brake Light	26.9 watts
Instrument Cluster	LCD
Weighted Sound and Vibration Levels (at 6700 RPM)	
Sound Pressure Level at rider's ear - db(A)	79 dB(A)
Sound Pressure Level at rider's ear - db(C)	91 dB(C)
Seat Vibration Level (m/s2)	0.6
Hand-Arm Vibration Level (m/s2)	4.1

CLUTCHING CHART

For more information about clutching options, please see your authorized dealer.

Altitude in meters (feet)	Shift Weight	Drive Clutch Spring	Driven Clutch Spring	Helix
0-1800 (0-6000)	25-52G PN 5632409	Black PN 7043594	Red PN 3234451	EBS PN 3235639
1800-3700 (6000-12000)	N/A	Black PN 7043594	Red PN 3234451	EBS PN 3235639

TROUBLESHOOTING
DRIVE BELT WEAR / BURN

POSSIBLE CAUSE	SOLUTION
Driving onto a pickup or tall trailer in high range	Use low range during loading.
Starting out going up a steep incline	Use low range or turn around using the K-turn. See the Turning Around on a Hill section.
Driving at low RPM or ground speed (3-7 MPH)	Drive at a higher speed or use low range more frequently. See the When To Use Low Range and High Range section.
Insufficient warm-up at low ambient temperatures	Warm the engine at least 5 minutes. With the transmission in neutral, advance the throttle to about 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning.
Slow/easy clutch engagement	Use the throttle quickly and effectively.
Towing/pushing at low RPM/low ground speed	Use low range only.
Utility use/plowing	Use low range only.
Stuck in mud or snow	Shift the transmission to low range and carefully use fast, aggressive throttle application to engage clutch. **WARNING!** Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped position	Shift the transmission to low range and carefully use fast, brief, aggressive throttle application to engage clutch. **WARNING!** Excessive throttle may cause loss of control and vehicle overturn.
Belt slippage from water or snow ingestion into the PVT system	Dry out the PVT. See the PVT Drying section. Inspect clutch seals for damage if repeated leaking occurs.
Clutch malfunction	See your dealer.
Poor engine performance	Check for fouled plugs or foreign material in gas tank or fuel lines. See your dealer.

POSSIBLE CAUSE	SOLUTION
Slippage from failure to warm up belt	Always warm up the belt by operating below 30 mph for one mile (5 miles or more when temperature is below freezing).
Wrong or missing belt	Install the recommended belt.
Improper break-in	Always break in a new belt and/or clutch. See the PVT Break-in (Clutches / Belt) section.
Low battery voltage	Recharge the battery to 12.8 VDC
Loose battery connections	Check all connections and tighten
Loose solenoid connections	Check all connections and tighten

ENGINE TURNS OVER, FAILS TO START

POSSIBLE CAUSE	SOLUTION
Out of fuel	Refuel
Water is present in fuel	Drain the fuel system and refuel
Old or non-recommended fuel	Replace with fresh recommended fuel
Fouled or defective spark plug	Inspect plug and replace if necessary
No spark to spark plug	Inspect plug and replace if necessary
Water or fuel in crankcase	Your authorized dealer can assist
Low battery voltage	Recharge the battery to 12.8 VDC
Mechanical failure	Your authorized dealer can assist

ENGINE BACKFIRES

POSSIBLE CAUSE	SOLUTION
Weak spark from spark plug	Inspect, clean and/or replace spark plug
Incorrect spark plug gap or heat range	Set gap to specs or replace plug
Old or non-recommended fuel	Replace with fresh recommended fuel
Incorrectly installed spark plug wires	Your dealer can assist
Mechanical failure	Your dealer can assist
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with fresh recommended fuel

ENGINE PINGS OR KNOCKS

POSSIBLE CAUSE	SOLUTION
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	Your authorized dealer can assist
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs

ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

POSSIBLE CAUSE	SOLUTION
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	Your authorized dealer can assist
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Loose ignition connections	Check all connections and tighten

POSSIBLE CAUSE	SOLUTION
Water present in fuel	Replace with new fuel
Low battery voltage	Recharge battery to 12.8 VDC
Kinked or plugged fuel tank vent line	Inspect and replace
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	Your authorized dealer can assist
Electronic throttle control malfunction	Your authorized dealer can assist
Other mechanical failure	Your authorized dealer can assist

POSSIBLE LEAN FUEL CAUSE	SOLUTION
Low or contaminated fuel	Add or change fuel, clean the fuel system
Kinked or plugged fuel tank vent line	Inspect and replace
Low octane fuel	Replace with recommended fuel
Clogged air filter	Your authorized dealer can assist
Incorrect fuel	Replace with recommended fuel

POSSIBLE RICH FUEL CAUSE	SOLUTION
Fuel is very high octane	Replace with lower octane fuel
Stopping/starting without adequate warm-up	Allow engine to warm up before operating and/or stopping
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace

ENGINE STOPS OR LOSES POWER

POSSIBLE CAUSE	SOLUTION
Out of fuel	Refuel, cycle key to ON position three times for 5 seconds each, then start
Kinked or plugged fuel vent line	Inspect and replace
Water is present in fuel	Replace with new fuel
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	Your authorized dealer can assist
Incorrect spark plug gap or heat range	Set gap to specs or replace plug
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge the battery to 12.8 VDC
Incorrect fuel	Replace with fresh recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	Your authorized dealer can assist
Electronic throttle control malfunction	Your authorized dealer can assist
Other mechanical failure	Your authorized dealer can assist
Overheated engine	Clean radiator screen and core, clean engine exterior. Your POLARIS dealer can assist.

ENGINE OVERHEATING

POSSIBLE CAUSE	SOLUTION
Debris lodged in screen	Clean the screen
Plugged Radiator	Use a garden hose to flush any debris from the radiator fins. **NOTE:** High pressure washers can deform the radiator fins and reduce cooling efficiency.

WARRANTY

LIMITED WARRANTY

POLARIS Industries Inc., 2100 Highway 55, Medina, MN 55340 (POLARIS) gives a TWO YEAR LIMITED WARRANTY on all components of your POLARIS vehicle against defects in material or workmanship. POLARIS further warrants that the spark arrester in this product will meet the efficiency requirements of USFS standard 5100-1C for at least 1000 hours when subjected to normal use and when maintenance and installation are in accordance with POLARIS recommendations.

This warranty covers parts and labor charges for repair or replacement of defective parts and begins on the date of purchase by the original retail purchaser. This warranty is transferable to another owner during the warranty period through a POLARIS dealer, but any such transfer will not extend the original term of the warranty. The duration of this warranty may vary by international region based upon local laws and regulations.

REGISTRATION

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to POLARIS within ten days of purchase. Upon receipt of this registration, POLARIS will record the registration for warranty. No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be your proof of warranty coverage. If you have not signed the original registration and received the customer copy, please contact your dealer immediately. NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR VEHICLE IS REGISTERED WITH POLARIS. Initial dealer preparation and set-up of your vehicle is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

WARRANTY COVERAGE AND EXCLUSIONS

LIMITATIONS OF WARRANTIES AND REMEDIES

This POLARIS limited warranty excludes any failures that are not caused by a defect in material or workmanship. THIS WARRANTY DOES NOT COVER CLAIMS OF DEFECTIVE DESIGN. This warranty also does not cover acts of God, accidental damage, normal wear and tear, abuse or improper handling. This warranty also does not cover any vehicle, component, or part that has been altered structurally, modified, neglected, improperly maintained or used for racing, competition or purposes other than for which it was designed.

This warranty excludes damages or failures resulting from improper lubrication; improper engine timing; improper fuel; surface imperfections caused by external stress, heat, cold or contamination; operator error or abuse; improper component alignment, tension, adjustment or altitude compensation; snow, water, dirt or other foreign substance ingestion/contamination; improper maintenance; modified components; use of aftermarket or unapproved components, accessories, or attachments; unauthorized repairs; or repairs made after the warranty period expires or by an unauthorized repair center.

This warranty excludes damages or failures caused by abuse, accident, fire, or any other cause other than a defect in materials or workmanship and provides no coverage for consumable components, general wear items, or any parts exposed to friction surfaces, stresses, environmental conditions and/or contamination for which they were not designed or not intended, including but not limited to the following items:

- Wheels and tires
- Suspension components
- Brake components
- Seat components
- Clutches and components
- Steering components
- Batteries
- Light bulbs/Sealed beam lamps
- Filters
- Lubricants
- Bushings
- Finished and unfinished surfaces
- Carburetor/Throttle body components
- Engine components
- Drive belts
- Hydraulic components and fluids
- Circuit breakers/Fuses
- Electronic components
- Spark plugs
- Sealants
- Coolants
- Bearings

LUBRICANTS AND FLUIDS

1. Mixing oil brands or using non-recommended oil may cause engine damage. We recommend the use of POLARIS engine oil.
2. Damage or failure resulting from the use of non-recommended lubricants or fluids is not covered by this warranty.

This warranty provides no coverage for personal loss or expense, including mileage, transportation costs, hotels, meals, shipping or handling fees, product pick-up or delivery, replacement rentals, loss of product use, loss of profits, or loss of vacation or personal time.

THE EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY SHALL BE, AT POLARIS' OPTION, REPAIR OR REPLACEMENT OF ANY DEFECTIVE MATERIALS, COMPONENTS, OR PRODUCTS. THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.

THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS EXCLUDED FROM THIS LIMITED WARRANTY. ALL OTHER IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY) ARE LIMITED IN DURATION TO THE ABOVE SIX MONTH WARRANTY PERIOD. POLARIS DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. SOME STATES DO NOT PERMIT THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU IF INCONSISTENT WITH CONTROLLING STATE LAW.

HOW TO OBTAIN WARRANTY SERVICE

If your vehicle requires warranty service, you must take it to a POLARIS Servicing Dealer. When requesting warranty service you must present your copy of the Warranty Registration Form to the dealer. (THE COST OF TRANSPORTATION TO AND FROM THE DEALER IS YOUR RESPONSIBILITY.) POLARIS suggests that you use your original selling dealer; however, you may use any POLARIS Servicing Dealer to perform warranty service.

IN THE COUNTRY WHERE YOUR PRODUCT WAS PURCHASED:

Warranty or Service Bulletin repairs must be done by an authorized POLARIS dealer. If you move or are traveling within the country where your product was purchased, Warranty and Service Bulletin repairs may be requested from any authorized POLARIS dealer that sells the same line as your product.

OUTSIDE THE COUNTRY WHERE YOUR PRODUCT WAS PURCHASED:

If you are traveling temporarily outside the country where your product was purchased, you should take your product to an authorized POLARIS dealer. You must show the dealer photo identification from the country of the selling dealer's authorized location as proof of residence. Upon residence verification, the servicing dealer will be authorized to perform the warranty repair.

IF YOU MOVE:

If you move to another country, be sure to contact POLARIS Customer Assistance and the customs department of the destination country before you move. Product importation rules vary considerably from country to country. You may be required to present documentation of your move to POLARIS in order to continue your warranty coverage. You may also be required to obtain documentation from POLARIS in order to register your product in your new country. You should warranty register your product at a local POLARIS dealer in your new country immediately after you move to continue your warranty coverage and to ensure that you receive information and notices regarding your vehicle.

IF YOU PURCHASE FROM A PRIVATE PARTY:

If you purchase a POLARIS product from a private party, to be kept and used outside of the country in which the product was originally purchased, all warranty coverage will be denied. You must nonetheless register your product under your name and address with a local POLARIS dealer in your country to ensure that you receive safety information and notices regarding your product.

EXPORTED PRODUCTS

EXCEPT WHERE SPECIFICALLY REQUIRED BY LAW, THERE IS NO WARRANTY OR SERVICE BULLETIN COVERAGE ON THIS PRODUCT IF IT IS SOLD OUTSIDE THE COUNTRY OF THE SELLING DEALER'S AUTHORIZED LOCATION. This policy does not apply to products that have received authorization for export from POLARIS. Dealers may not give authorization for export. You should consult an authorized dealer to determine this product's warranty or service coverage if you have any questions. This policy does not apply to products registered to government officials or military personnel on assignment outside the country of the selling dealer's authorized location. This policy does not apply to Safety Bulletins.

NOTICE

If your product is registered outside of the country where it was purchased and you have not followed the procedure set above, your product will no longer be eligible for warranty or service bulletin coverage of any kind, other than safety bulletins. Products registered to government officials or military personnel on assignment outside of the country where the product was purchased will continue to be covered by the Limited Warranty.

Please work with your dealer to resolve any warranty issues. Should your dealer require any additional assistance, they will contact the appropriate person at POLARIS.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or in different countries. If any of the above terms are void because of federal, state, local law, all other warranty terms will remain in effect.

MAINTENANCE LOG

MAINTENANCE LOG

Use the following chart to record periodic maintenance.

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

A

B

C

D

E

F

G

H

I

J

L

M

N

O

P

R

S

T

U

V

W

For your nearest Polaris dealer, visit www.polaris.com

Polaris Sales Europe Sarl
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1180 Rolle, Switzerland

Part No. 9928940 Rev 01